SPEAR & JACKSON

Hand & Engineering Tools Catalogue

Issue 5

CONTENTS

SPEAR & JACKSON

THE COMPANY

Spear & Jackson (Tools) Ltd. are recognised throughout the world as leading manufacturers of Hand and Engineering tools.
The Company benefits from over 200 years of manufacturing expertise and is the brand leader within its product range.
Hand & Engineering tools are, in the main, manufactured at our factories in Sheffield.
Garden, Contractors and Agricultural tools are produced at Wednesbury in the West Midlands.

THE PRODUCT

It is not necessary to emphasise the fact that all Spear & Jackson Hand & Engineering tools carry the quality symbol.
Whether the requirement is for saws or spanners, the customer, in buying Spear and Jackson, is assured of the best.
Traditional and inherent skills are embodied in such brand names as BEDFORD - TYZACK - WHS, etc. which are all Spear and Jackson products.

MARKETING

The Company operates with a very strong marketing orientation and works closely with users, distributors, industrial accounts and specifying bodies.
Stock coverage is achieved throughout the United Kingdom and Eire with a considerable wholesaler network, enabling the Company to support its stockists with good distribution and availability.
Our distributors support field selling by "in depth" stocking and range coverage.
Spear & Jackson (Tools) Ltd. have a sales team which is strategically located throughout the country and is able to service all sectors of the Trade.

BRITISH STANDARDS

The British Standard is a means of ensuring quality and adequate safety tolerances.
Spear and Jackson (Tools) Ltd. have a continuing policy of maintaining those standards, where applicable, as a minimum for strength and safety.

THE RANGE

All Spear & Jackson products are manufactured to a laid down specification, upheld by the Quality Controller and his staff.
Quality control covers all stages of manufacture within our factories, commencing with "standards" for raw materials and accessories.
Justifiably, Spear and Jackson are regarded in the market place as "The House of Quality".

SPEAR & JACKSON

THE RANGE

SAWS Hand & Tenon

Spear & Jackson
Workhorse
Black Prince
Grandmaster
Professional

SPECIAL PURPOSE

Flooring
Pruning
Log Saws
Hacksaws
General Purpose

ACCESSORIES

Blades for
Logsaw,
Hacksaw,
Circular saw
Mitre Blocks

HAMMERS

Spear & Jackson

Claw
Warrington
Householders
Ball Pein
Cross Pein
Telephone Pein

Scaling
Brick
Scutch
Mortar Pick
Club
Sledge

ACCESSORIES

Chisel Bits
Comb Bits
Wrecking Bar
Masons Pitching Tool
Slaters Axe
Slaters Ripper

TROWELS

WHS
Tyzack
Centurion
Spear & Jackson

Brick
Pointing
Gauging
Plastering
Cement
Concreting
Floats,
Angles and Hawks

SPECIAL PURPOSE

Flooring
Mastic
Harling
Corner
Tiling
Plasterers
small tools

ACCESSORIES

Line pins

CHISELS

Spear & Jackson

Cold
Engineers
Brick
Electricians
Concrete

PUNCHES

Pin centre & taper
Nail sets
Roofing

SPANNERS & SOCKETS

Bedford

Open ended standard length
Open ended short series
Open ended miniature
Ring standard length
Ring short series
Ring miniature
Combination long
Combination short
Brake adjusters
⅜" square drive sockets
½" square drive sockets
¾" square drive sockets

ACCESSORIES

Reversible Ratchets
Sliding T-bar head
Torque wrench
Nut spinners
Universal joints
Extensions
Speeder brace
Spark plug sockets
Convertors
⅜" square drive socket sets
½" square drive socket sets

SPEAR & JACKSON

THE RANGE

FILES

Spearfile
(Bedford/Peace)
Spear & Jackson

Engineering
Saw
Rasp
Reaper
Hardness testing
Magneto
Precision
Needle
Handle files - D.I.Y.

OTHER SPEAR & JACKSON BRANDS AND PRODUCTS

are detailed in our Garden, Agricultural and Contractors Tools Catalogue and Leaflets.

GARDEN TOOLS

Neverbend
Allbright
Stainless

Spades
Forks
Hoes
Rakes
Edging Knives
Trowels & Weed Forks
Garden Sundries
Garden Shears
Secateurs

AGRICULTURAL TOOLS

Spear & Jackson
Neverbend
John Riley
Fussell

Bill Hooks
Slashers & Brushing Hooks
Reap Hooks and Grass Hooks
Scythes
Potato Forks
Manure Forks and Drag
Hay & Bale Forks
Digging Forks
Spades and Shovels
Axes and Hatchets
Hoes and Rakes
Ancillary Tools
Log Saws
Sledge Hammers

CONTRACTORS TOOLS

Spear & Jackson
Neverbend

Draining and
Grafting Tools
Tarmacadam Rakes
Picks

OFFICIAL APPROVAL

Many products manufactured at our Wednesbury Factory, have the official approval of the:-

Ministry of Defence.
The National Coal Board.
British Rail.
London Transport.

Further information regarding these standards are available from the Wednesbury Factory.

Conditions of sale

Price ruling
Prices are charged at the rate ruling on the date of despatch.

Discounts
Discount rates will be applied to the **VAT exclusive list prices.**

Quality
Careful procedures should ensure consistent quality. If, after inspection, any defect due to poor materials or workmanship is found, we undertake to replace the goods free of charge.

Loss or damage
Goods sent by post, railway, road carriers or ship are consigned at our own risk but this risk passes with the goods to the customer on delivery.
Consignees must notify both the carrier and ourselves in writing of any damage or loss within three days of receipt of goods, or, in the event of non-delivery of goods, within fourteen days from the date of the advice note or invoice.
When our own transport is used we must be advised of any shortage within seven days of date of delivery, otherwise claims cannot be met.

Returns
All goods returned by prior arrangement with the company should be accompanied by an advice note.

Packing
Goods are either bundled or packed in free non-returnable cartons or cases. Standard packs of 1, 3, 5 or 10 are shown for different products in the price list. Orders should be placed in multiples of these quantities to simplify packing and despatch.

Carriage
Goods are despatched carriage-free to all parts of the UK.

Payment
Charges on the invoice are shown net of all discounts. Invoices should be paid strictly net monthly.

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Section 1 Hand Tools

Section 2 Engineering Tools

Saws

Section 1
Hand Tools

Spear and Jackson craftsmen have been making good saws for over 200 years. Every saw made today remains a fine example of this tradition which relies on both quality and value for money.

Our saws dominate every sector of the market, from the basic D.I.Y. saw in our B99 range, to our craftsman's quality in the R88 range.

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Hammers Spear & Jackson **Saws** Tyzack Trowels Bedford Hammers
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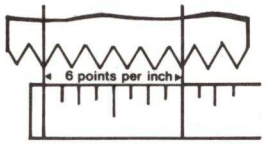
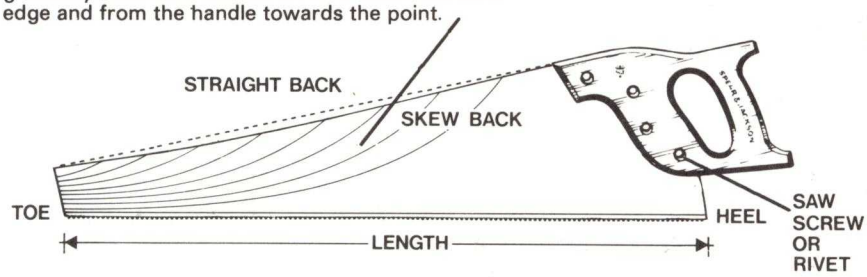
Saws
Technical Information

6 points per inch = 5 teeth per inch.
The tooth size is measured by the number of points per inch.



Best quality saws are "taper ground". The blade is of uniform thickness along the toothed edge and near the handle, but the thickness of the blade is gradually reduced from the teeth towards the back edge and from the handle towards the point.

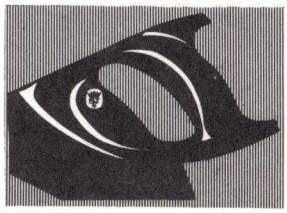


SPECIAL FEATURES

The basic design of handsaws has remained unchanged for centuries, but developments in the use of plastics have led to new treatments for both blades and handles.

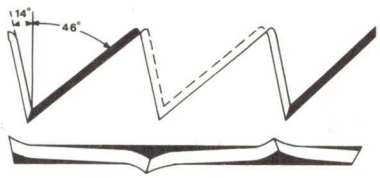
P.T.F.E. COATED BLADES
A friction reducing, rust resisting coating of Polytetrafluorethylene (P.T.F.E.) helps the blade to slide easily through the wood.

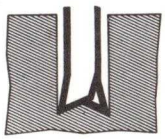
MOULDED PLASTIC HANDLES
Handles of virtually unbreakable polypropylene may be moulded directly to the blade, without the necessity of handle screws.



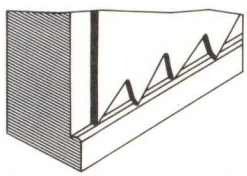
CROSS CUT

The CROSS-CUT saw is used for cutting across the grain. Its teeth are "bevel sharpened" into a series of knife-like points which sever the fibres, forming two parallel cuts very close together.
The short fibres between the cuts crumble away as sawdust. CROSS CUT saws have seven or EIGHT POINTS PER INCH. PANEL saws for plywood and similar materials are usually shorter in length, and have TEN POINTS PER INCH.





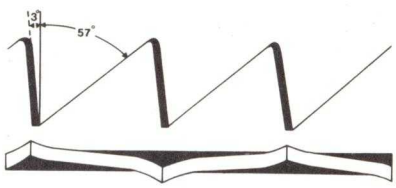
Alternate teeth are bent or 'set' to left and right making the cutting edge slightly wider than the blade thickness.



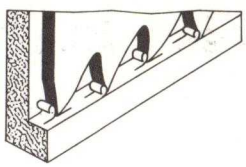
The knife-edge points of cross cut teeth sever the fibres.

RIP

The RIP SAW has chisel-shaped teeth with their edges almost at right-angles to the length of the saw. The teeth make a series of cuts into and along the grain. Waste material, in the form of elongated chippings, curls away in front of the square-cut teeth. The RIP SAW usually has 5 POINTS PER INCH.



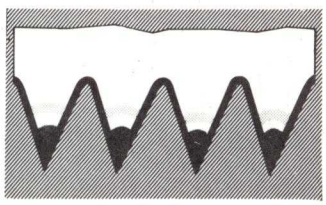
'Set' prevents the saw blade from wedging in the cut.



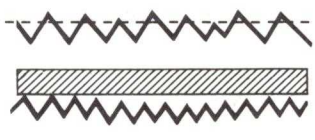
Rip teeth chisel a groove along the grain.

FLEAM

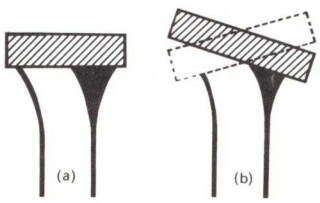
Sometimes called STRAIGHT teeth, this pattern is designed for fast cutting across the grain. It is neither as accurate, nor as smooth cutting as a properly set and sharpened cross cut saw, and is usually regarded as a 'handyman's' tool. The teeth are often tip hardened to give extra long effective cutting life.



SAW CARE



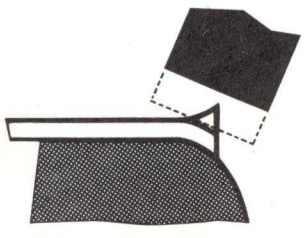
TOPPING OR JOINTING brings all the tooth points to the same height. Use a well worn flat file, fix the saw in a saw vice and hold the file perfectly flat.



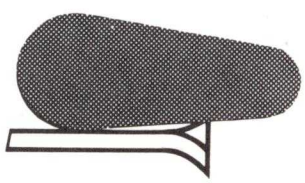
Unless the file is held quite flat (a) the edges of the teeth will become rounded and difficult to sharpen (b).

SHAPING brings all the teeth to a uniform shape and size. Use a slim taper saw file, 8" long for rip teeth 6" long for cross cut, file straight across the gullets at right angles to the blade.

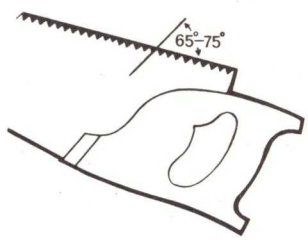
SETTING is usually carried out with a pliers-type saw set. Adjust the plunger to set only the top third of the tooth. The correct set is the least amount that will give clearance in the cut.



The best method of setting is with fine cross pean hammer, and a special saw anvil. This is the factory method used on craftsman quality saws, and requires years of training.



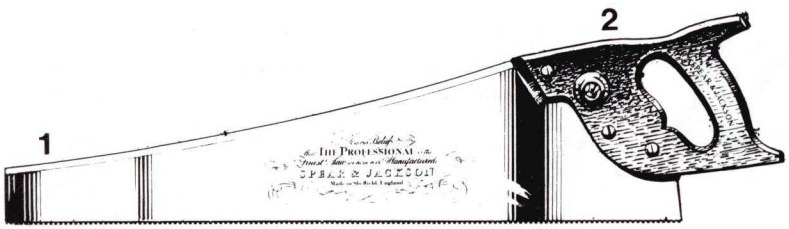
To even out any inequalities in setting, the blade should be SIDE DRESSED with an oilstone slip.



When SHARPENING a crosscut saw, the file is held at an angle of 65° - 75° to produce the bevel. Alternate teeth set towards the filer are sharpened first, then the saw is turned in the vice, and the remaining teeth filed.

The filing procedure is the same for rip saws, except that the file is held at right angles to the saw blade. After filing; side dress very lightly with an oilstone slip to remove any burrs caused by the file.

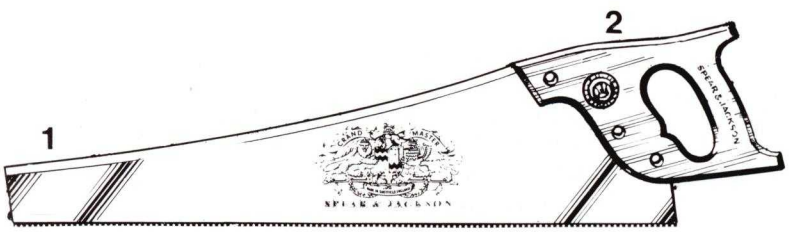
SPEAR & JACKSON Saws



R88 'Professional'

1. Nickel-Chrome Molybdenum stays sharp longer, cuts faster, taper ground.
2. Best hardwood handle dowelled for strength

inches	20	22	24	26	26	
mm	500	550	600	650	650	
point	10	10	7	6	5	Rip
Code No.	09120	09122	09124	09126	09128	



R189 'Grand Master'

1. Nickel-Chrome Molybdenum Steel taper ground.
2. Beech handle, four screws.

inches	22	24	26
mm	550	600	650
point	10	7	6
Code No.	19022	19024	19026

G104 'Black Prince'

1. Teflon *S Coating reduces friction, resists rust.
2. Handle moulded onto blade. Polypropylene

inches	20	22	22	24	26
mm	500	550	550	600	650
point	10	8	10	7	6
Code No.	01140	01141	01142	01144	01146

G104 'Tufcut'

1. Teflon *S coated.
Hardened handsaw teeth, for tough materials CANNOT be file sharpened.

20" (500mm) x 10 point
Code 01145

G104HP 'Hardpoint'

1. Teflon *S coated, with hardened fleam teeth — last up to 4 times longer before grinding: CANNOT be file sharpened.

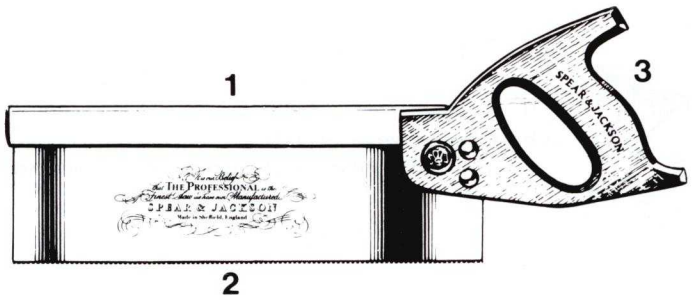
(Not illustrated)
22" (550mm) x 8 point
Code 01143

B99 'Work Horse'

The basic robust D.I.Y. saws for everyone

inches	20	22	22	24	26
mm	500	550	550	600	650
point	10	8	10	7	6
Code No.	09851	09853	09856	09860	09865

SPEAR & JACKSON Saws



R52 'Professional'

1. Polished brass back.
2. Nickel-Chrome Molybdenum steel blade.
3. Best hardwood handle with screw fixing

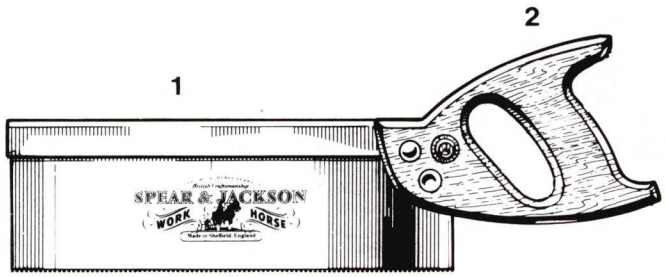
inches	8	8	10	12	14
mm	200	200	250	300	350
point	20	15	15	15	13
Code. No.	05308	05309	05310	05312	05314

NB: Code 05308 (8'' 20 point) is a 26G Dovetail Saw

G47 'Black Prince'

1. Teflon *S coated with excellent cutting performance.
2. Steel back.
3. Polypropylene Handle.

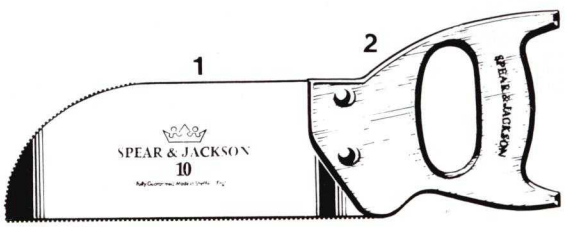
inches	10	12
mm	250	300
point	15	15
Code No	00570	00572



B22 'Work Horse'

1. Steel back.
2. Sheffield Steel blade.

inches	8	10	12
mm	200	250	300
point	13	13	13
Code No.	02308	02310	02312



B10 Flooring

1. Teeth on back edge.
2. Hardwood handle

12½'' (315mm) Code No. 06016

55 General Purpose

1. Hardened teeth, For cutting wood, laminates, mild steel and non ferrous metals
2. 5 position handle.

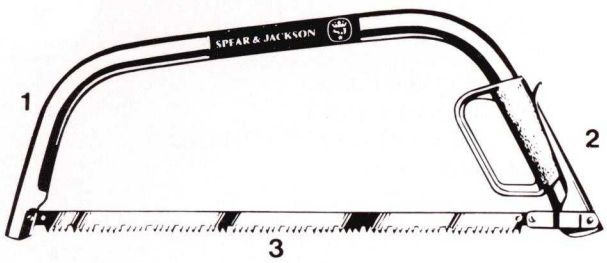
14'' (350mm) Code No. 05500

G14 Pruning

1. Double edged. Teflon *S coated to reduce friction
2. Hardwood Handle

14'' (350mm) Code No. 01400

SPEAR & JACKSON Saws



R38 Log Saw

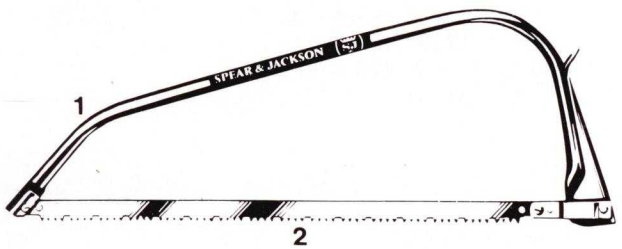
1. Oval section frame, quick release toggle.
2. Plastic hand grip and guard.
3. Hardened 'Spearfast' teeth for faster cutting.

inches	24	30	36
mm	610	760	915
Code No.	03802	03803	03804

R39

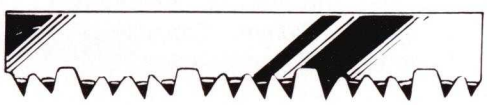
As R38 but with Teflon*S Blade Not illustrated

inches	24	30
mm	610	760
Code Nos	03809	03810



G30 Log Saw

Popular saw for camper, caravanner, useful for pruning and light tasks
1. Round section frame
2. 21″ Spearfast blade



R382 Logsaw Blade

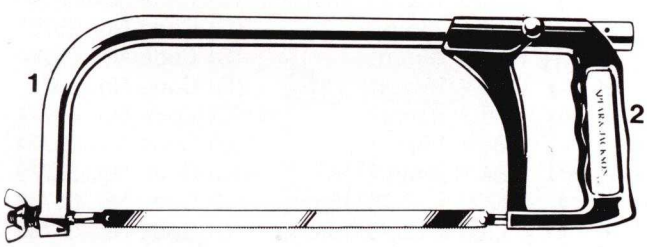
'Spearfast' Induction hardened teeth.

inches	21	24	30	36
mm	535	610	760	915
Code No.	03911	03912	03913	03914

R383 Logsaw Blade

As R382 but Teflon *S coated

inches	24	30	36
mm	610	760	915
Code No.	04012	04013	04014



G328 Spearior Hacksaw

1. Adjustable chromed tubular frame.
2. Die cast handle. 10″ (250mm) blade.

Code No. 03280.

R75 Hacksaw Blades

Tungsten

Flexible, hand 12″ x ½″ (300 x 12.75mm).

	18	24	32	Teeth per inch
Code No.	07522	07523	07524	

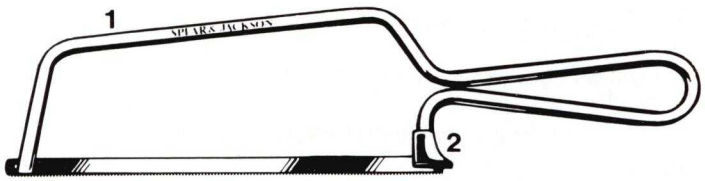
R79 Hacksaw Blades

High speed

Hand, 12″ x ½″ (300 x 12.75mm).

	18	24	32	Teeth per inch
Code No.	07922	07923	07924	

SPEAR & JACKSON Saws



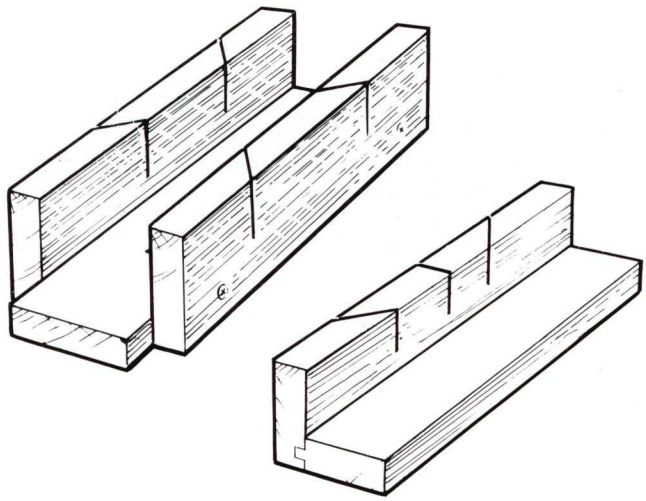
G331 Junior Hacksaw

1. Chrome plated frame.
2. Rubber knuckle guard.

6" x ¼" (150 x 6.4mm) 32 T.P.I. blade.
Code No. 03310.

G332 Junior Blades

Blades for G 331
Code No. 03320.

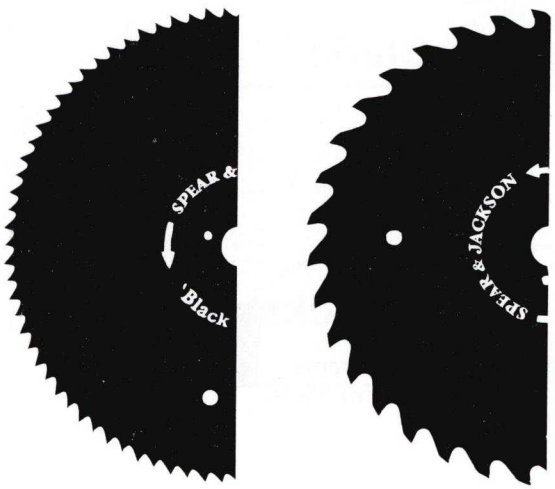


710 Mitre Box

Hardwood sides, Glued and Screwed to base.
Drilled for bench mounting.
Length 9" (230mm).
Capacity 3" x 2" (75 x 50mm).
Code No. 00710.

711 Mitre Block

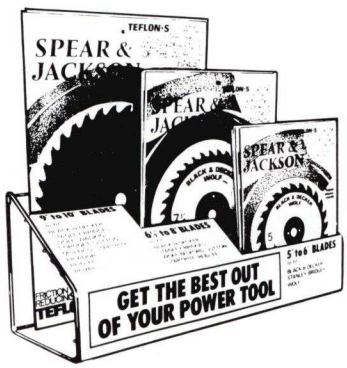
Hardwood sides.
Tongued and grooved construction.
Length 9" (230mm). Capacity 1½" sq. (38mm).
Code No. 00711.



R57 Circular Saw Blades

Teflon *S coated.
In Gullet (G) or Crosscut (C) versions.
For most popular makes of power tools

5" × ½" (127 × 12.75mm)	(G) Code No. 05750
5" × ½" (127 × 12.75mm)	(C) Code No. 05752
6" × ½"/⅜" (150 × 12.75/9.5mm)	(G) Code No. 05763
6" × ½"/⅜" (150 × 12.75/9.5mm)	(C) Code No. 05765
6" × 1⅛" (150 × 28mm)	(G) Code No. 05761
6" × 1⅛" (150 × 28mm)	(C) Code No. 05764
6½" × ⅝" (165 × 16mm)	(G) Code No. 05769
6½" × ⅝" (165 × 16mm)	(C) Code No. 05771
7¼" × ⅝" (184 × 16mm)	(G) Code No. 05774
7¼" × ⅝" (184 × 16mm)	(C) Code No. 05779
8" × ½"/⅝" (200 × 12.75/16mm)	(G) Code No. 05783
8" × ½"/⅝" (200 × 12.75/16mm)	(C) Code No. 05785
9" × ⅝" (229 × 16mm)	(G) Code No. 05784
9" × ⅝" (229 × 16mm)	(C) Code No. 05789
9¼" × 1⅜" (235 × 35mm)	(G) Code No. 05796
9¼" × 1⅜" (235 × 35mm)	(C) Code No. 05798



05850 'Salesmaker'

Circular Saw Merchandiser.
28 most popular blades.
14 Crosscut, 14 Gullet.
Code No. 05850.

Hammers

Section 1
Hand Tools

Comprehensive Range made to high standards of quality and reliability. All hammers are scientifically designed for perfect balance.

owels Spear & Jackson Hammers Bedford Chisels & Punches Tyzack
es Bedford Spanners & Sockets Spear & Jackson Saws WHS Trowels
Hammers Spear & Jackson Saws Tyzack Trowels Bedford Hammers
es Centurion Trowels SpearFiles Bedford Spanners & Sockets Spear &
kson Hammers Bedford Chisels & Punches Spear & Jackson Saws Ce
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& Jackson Saws Tyzack Trowels Centurion Trowels SpearFiles Bedfo
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Bedford Spanners & Sockets Spear & Jackson Saws Centurion Trowel
mmers Spear & Jackson Saws Tyzack Trowels Bedford Hammers WH
rowels Bedford Chisels & Punches Centurion Trowels Spear & Jackso
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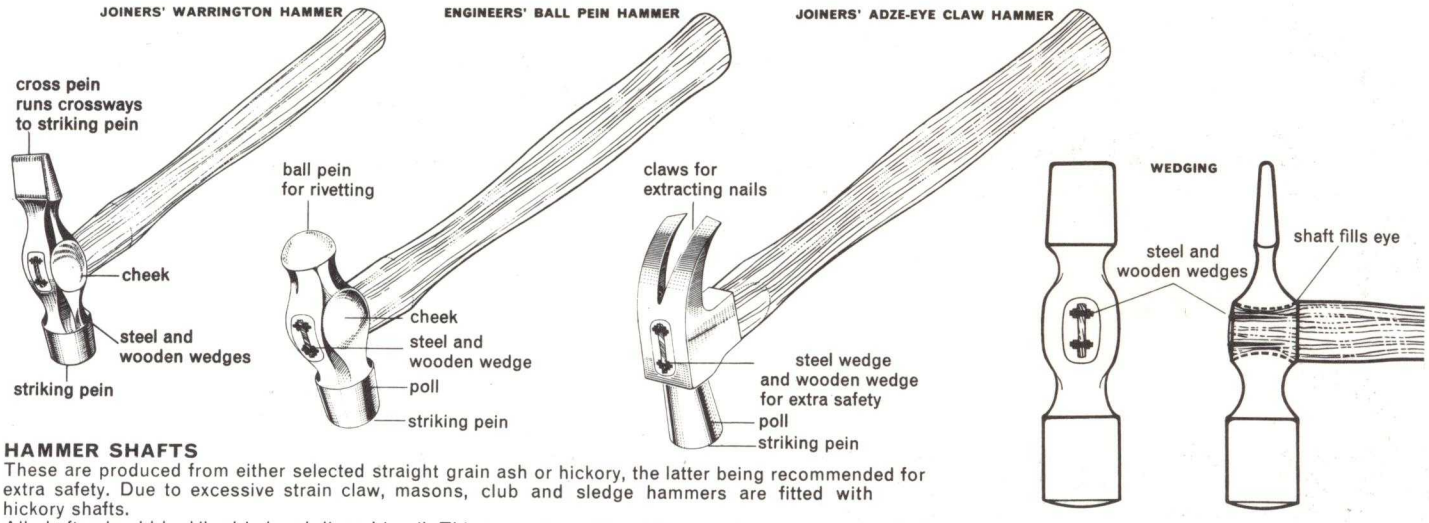
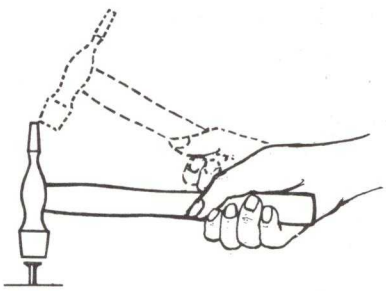
Bedford Spanners & Sockets Spear & Jackson Saws Centurion Trowel
mmers Spear & Jackson Saws Tyzack Trowels Bedford Hammers WH
Trowels Bedford Chisels & Punches Centurion Trowels Spear & Jackso

Hammers
Technical Information

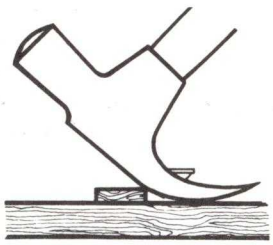


HAMMER SHAFTS
These are produced from either selected straight grain ash or hickory, the latter being recommended for extra safety. Due to excessive strain claw, masons, club and sledge hammers are fitted with hickory shafts.
All shafts should be kiln dried and dipped in oil. This prevents shaft shrinkage and maintains a firm and consistently tight head. In addition, both wooden and steel wedges are driven into the top of the shaft, adding further head tightness.

USE YOUR HAMMER CORRECTLY

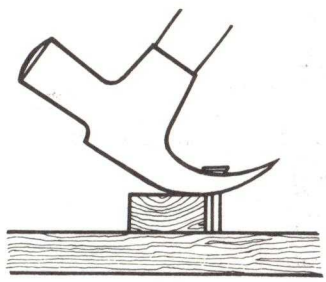


HOLD THE HAMMER LIGHTLY BUT FIRMLY
Shoulder, elbow and forearm should be in line, the blow being delivered through the wrist.



PROTECT THE WOOD
Place a thin strip of plywood or similar scrap timber between hammer head and face of the work.

When the nail is long pack up the hammer with scrap timber.



USE THE CORRECT HAMMER FOR THE JOB
Hammers are generally assumed to be a rough type of tool and that any old hammer will suffice. This is simply not true. There is a hammer for every job.

SOME USEFUL SAFETY HINTS AND TIPS

DO

(1) **DO:** Inspect your hammer before you use it. See that the head is free from grease and dirt and that the shaft is tight and unsplintered.

(2) **DO:** Use the right weight of hammer for the job. Too light or too heavy a hammer can spoil the work, or the tool, or even cause an accident.

(3) **DO:** Hold the hammer by the last few inches of the handle. A 'strangled' hammer cannot work efficiently.

(4) **DO:** Use an easy wrist action — a forearm swing is spectacular but inefficient.

(5) **DO:** Keep your eye on the work and not on your hammer.

DON'T

(1) **DON'T:** Strike two hardened hammer faces together. Danger from cracking and flying chips can result.

(2) **DON'T:** Use the side or cheek of a hammer. The 'peins' or ends are hardened for striking, the cheeks are not.

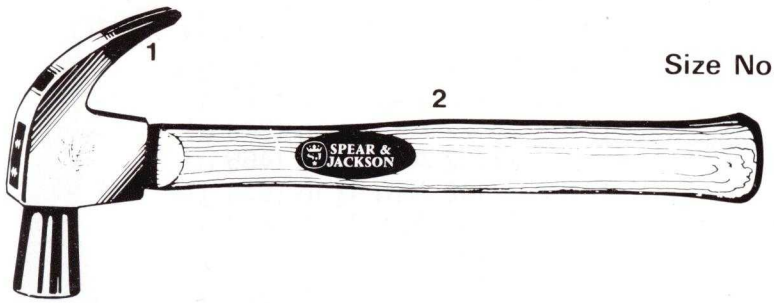
(3) **DON'T:** Use your hammer on brittle materials. Flying pieces of metal are shrapnel and have the same effect.

(4) **DON'T:** Use the shaft of your hammer as a mallet or crowbar — you will only ruin the shaft.

(5) **DON'T:** Rehandle your hammer with 'any old timber,' use Ash or Hickory only and use both wood and metal Hammer Wedges.

(6) **DON'T:** Expect a claw hammer to remove 6" nails and still retain a tight and level head.

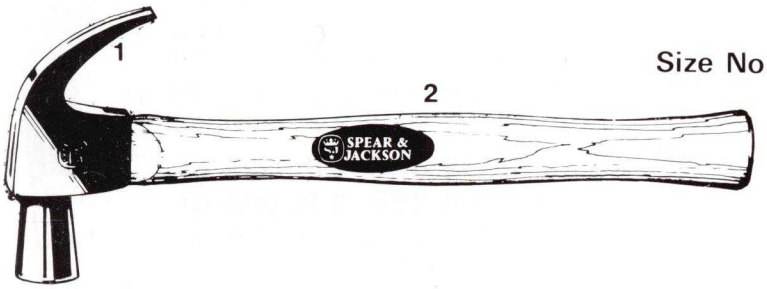
SPEAR & JACKSON Hammers



269 Adze-Eye Claw

Size No. **2.** Code 26916 16 oz (455 g)
3. Code 26920 20 oz (570 g)
4. Code 26924 24 oz (680 g)

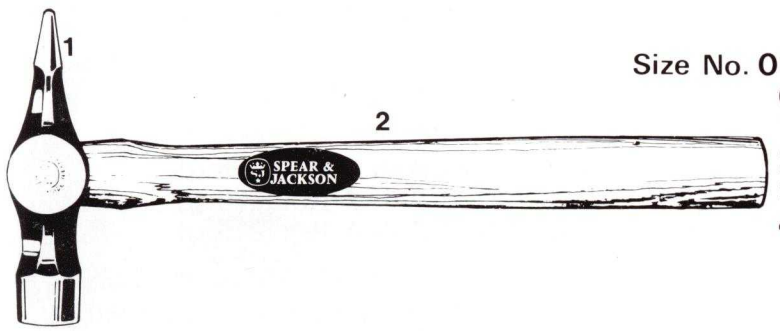
1. Forged heat treated polished head
2. Weatherproofed Hickory handle



273 Householders' Claw

Size No. **2.** Code 27316 16 oz (455 g)
3. Code 27320 20 oz (570 g)

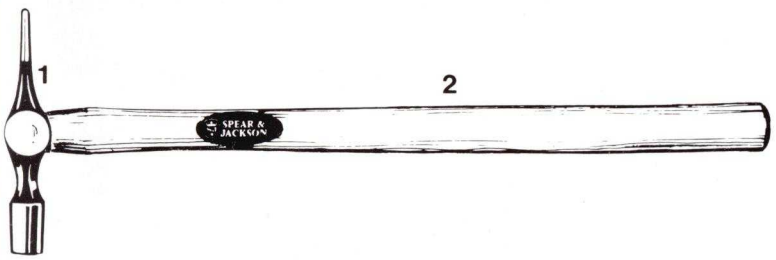
1. Forged Black head
2. Weatherproofed handle



272 Warrington

Size No. **00.** Code 27206 6 oz (170 g)
0. Code 27208 8 oz (225 g)
1. Code 27210 10 oz (285 g)
2. Code 27212 12 oz (340 g)
3. Code 27214 14 oz (395 g)
4. Code 27216 16 oz (455 g)

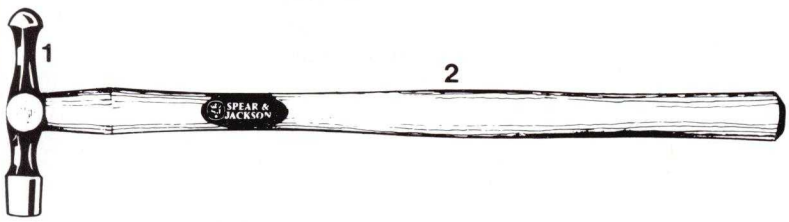
1. Forged heat treated head
2. Weatherproofed Ash handle



276 Telephone or Pin

Code 27600 3½ oz (100 g)

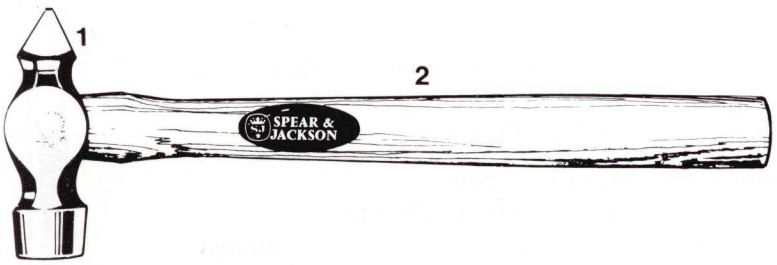
1. Forged cross pein, heat treated head
2. Weatherproofed Ash handle



275 Telephone or Pin

Code 27500 3½ oz (100 g)

1. Forged, Ball pein, heat treated head
2. Weatherproofed Ash handle

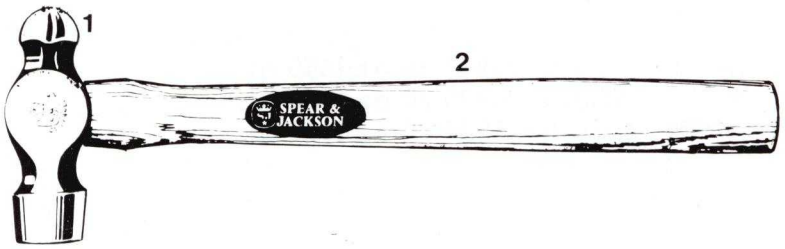


270 Engineers' Cross Pein

Code 27012 ½ lb (225 g)
Code 27022 ¾ lb (340 g)
Code 27032 1 lb (455 g)
Code 27052 1½ lb (680 g)

1. Forged heat treated head
2. Weatherproofed Ash handle

SPEAR & JACKSON Hammers



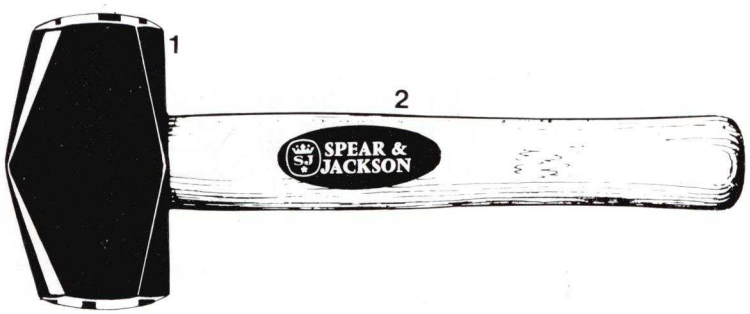
271 Engineers' Ball Pein

Code 27102 Ash ¼ lb (155 g)
Code 27112 Ash ½ lb (225 g)
Code 27122 Ash ¾ lb (340 g)
Code 27132 Ash 1 lb (455 g)
Code 27142 Ash 1¼ lb (570 g)
Code 27152 Ash 1½ lb (680 g)
Code 27162 Ash 1¾ lb (795 g)
Code 27172 Ash 2 lb (905 g)
Code 27182 Ash 2½ lb (1135 g)

Code 27114 Hickory ½ lb (225 g)
Code 27134 Hickory 1 lb (455 g)
Code 27154 Hickory 1½ lb (680 g)
Code 27174 Hickory 2 lb (905 g)

Code 27119 BSS ½ lb (225 g)
Code 27139 BSS 1 lb (455 g)
Code 27159 BSS 1½ lb (680 g)
Code 27179 BSS 2 lb (905 g)

1. Forged heat treated head
2. Weatherproofed Ash/Hickory handle

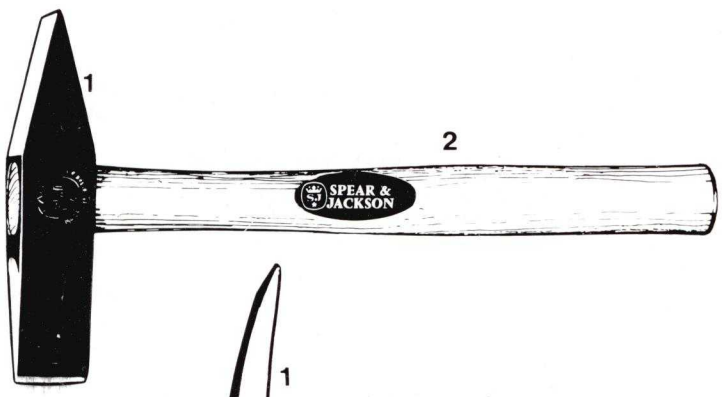


182 Club or Lump

Code 18225 Ash 2½lb (1135 g)
Code 18230 Ash 3 lb (1360 g)
Code 18240 Ash 4 lb (1815 g)

Code 18275 Hickory BSS 2½lb (1135 g)
Code 18280 Hickory BSS 3 lb (1360 g)
Code 18290 Hickory BSS 4 lb (1815 g)

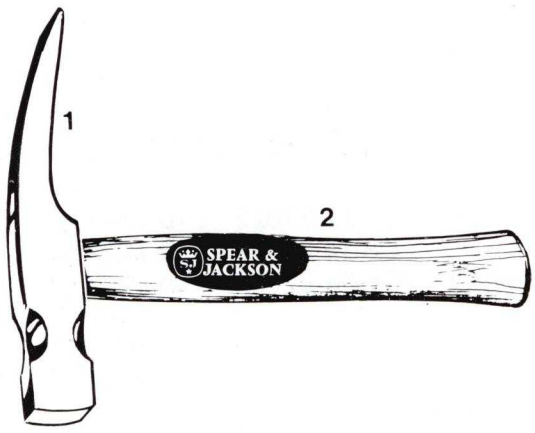
1. Forged heat treated head
2. Weatherproofed Ash/Hickory handle



274 Scaling

Code 27416 1 lb (455 g)
Code 27424 1½lb (680 g)

1. Forged heat treated head
2. Weatherproofed Ash handle



175 Brick

Code 17500

1. Forged heat treated polished head
2. Weatherproofed handle

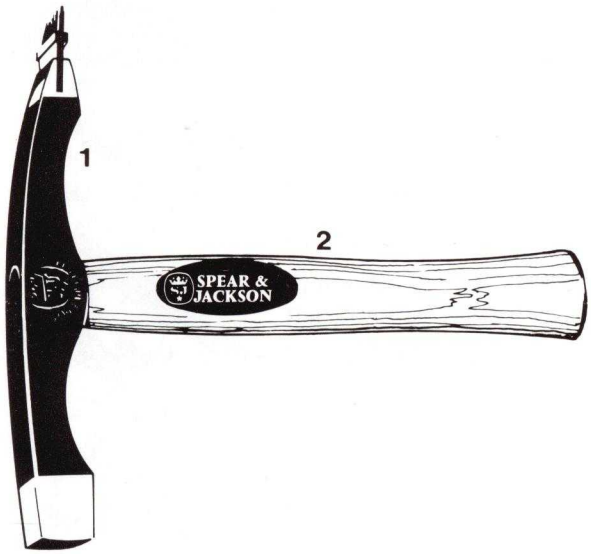
176 Brick

Code 17600

As pattern 175 but:—

1. Half polished head not illustrated

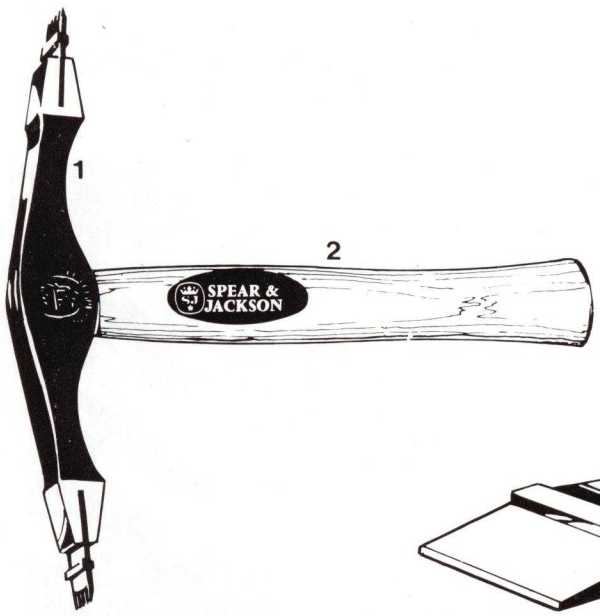
SPEAR & JACKSON Hammers



177 One Slot Scutch Hammer

Code 17710

1. Slotted one end with comb
2. Weatherproofed handle



178 Scutch Hammer

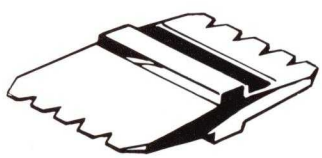
Code 17800

1. Slotted both ends with combs
2. Weatherproofed handle

179 Chisel Bits

Code 17910 1″ (25 mm)

Chisel bits for patterns 177 or 178



180 Comb Bits

Code 18010 1″ (25 mm)

Comb bits for patterns 177 or 178

184 Mortar Pick-Hammer

Code 18400

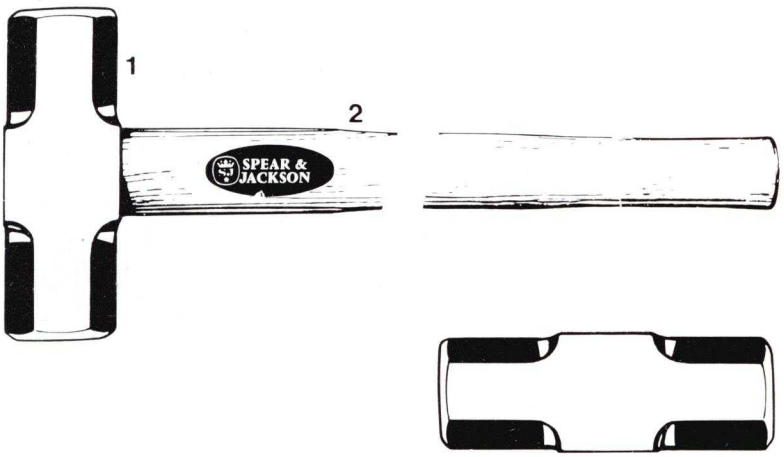
1. Black finished head
2. Hickory handle

SPEAR & JACKSON Hammers

185 Mortar Pick

Code 18500 Chisel and point
Code 18520 Double point

please specify chisel and point or double point when ordering



277 Sledge Double Faced

1. Heat treated, bright bevelled faces
2. Hickory handle

Code 27704	1. **4 lb (1.8 kg)**	2. **30″ (76 cm)**
Code 27707	1. **7 lb (3.2 kg)**	2. **36″ (91 cm)**
Code 27710	1. **10 lb (4.5 kg)**	2. **36″ (91 cm)**
Code 27714	1. **14 lb (6.4 kg)**	2. **36″ (91 cm)**

277 Sledge Heads

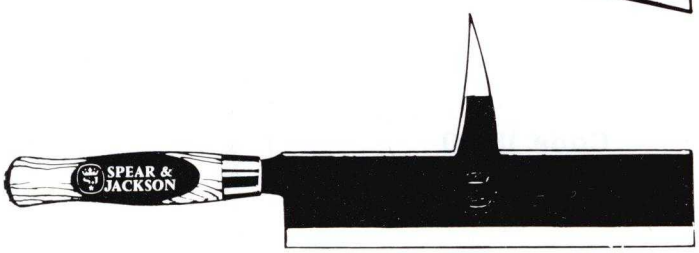
Code 27754 4 lb (1.8 kg)
Code 27757 7 lb (3.2 kg)
Code 27760 10 lb (4.5 kg)
Code 27764 14 lb (6.4 kg)

196 Masons' Pitching Tool

Code 19600 9″ × $\frac{7}{8}$″ × 2″ (230 × 22 × 50 mm)
Carbon steel, hammer head

637 Wrecking Bar

Code 23740 18″ × $\frac{3}{4}$″ (46 cm × 19 mm)
Code 23760 24″ × $\frac{3}{4}$″ (61 cm × 19 mm)
Code 23780 30″ × $\frac{3}{4}$″ (76 cm × 19 mm)



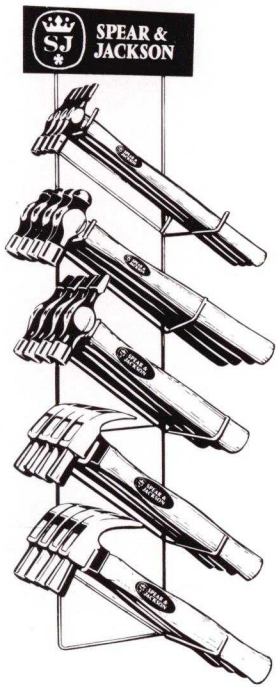
192 Slaters' Axe

Code 19200
Through tang

198 Slaters' Ripper

Code 19800 23″ (58 cm)
Forged blade

SPEAR & JACKSON Hammer Racks



455 Hammer Rack

Mixed Assortment

4 each

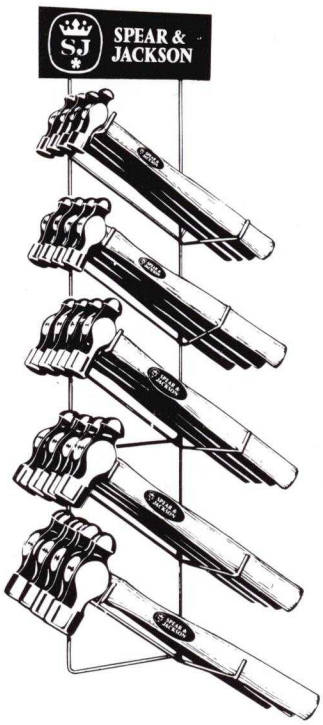
Cross Pein Pin Hammer 3½ ozs.
Ball Pein Hammer 1 lb.
Warrington Hammers No. 2 (12 ozs).
Adze-Eye Claw Hammers No. 2 (16 ozs).
Adze-Eye Claw Hammers No. 3 (20 ozs).

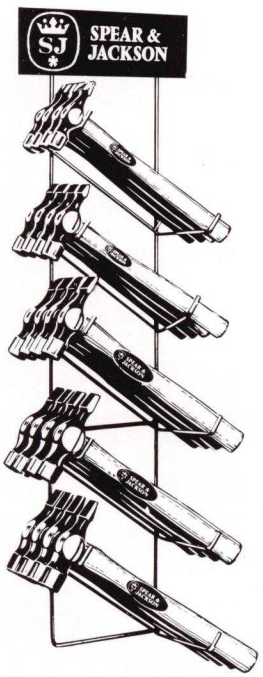
456 Hammer Rack

Engineers' Ball Pein

4 each

Ball Pein Hammers ½ lb.
Ball Pein Hammers ¾ lb.
Ball Pein Hammers 1 lb.
Ball Pein Hammers 1½ lb.
Ball Pein Hammers 2 lb.





457 Hammer Rack

Joiners' Warrington

4 each

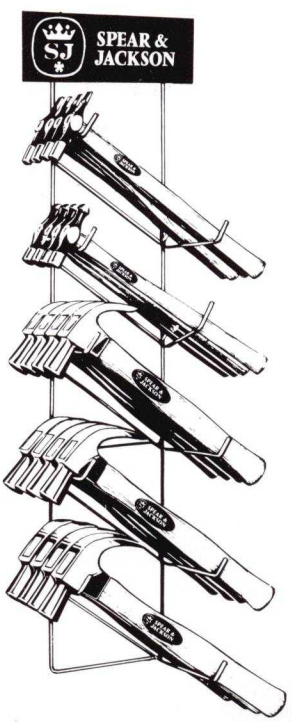
Warrington Hammers No. 00 (6 ozs).
Warrington Hammers No. 0 (8 ozs).
Warrington Hammers No. 1 (10 ozs).
Warrington Hammers No. 2 (12 ozs).
Warrington Hammers No. 3 (14 ozs).

458 Hammer Rack

Adze-Eye Claw/Pin

4 each

Cross Pein Pin Hammers 3½ ozs.
Ball Pein Pin Hammers 3½ ozs.
Adze-Eye Claw Hammers No. 2 (16 ozs).
Adze-Eye Claw Hammers No. 3 (20 ozs).
Adze-Eye Claw Hammers No. 4 (24 ozs).



Alternatively you may make up your own selection from the Hammers listed below. Each Rack carries 4 hammers x 5 types/sizes — 20 Hammers per Rack — for Wall/Pegboard mounting.
Engineers' Ball Pein ¼, ½, ¾, 1, 1¼, 1½, 1¾, 2lb.
Engineers' Cross Pein ½, ¾, 1, 1½lb.
Ball Pein Pin 3½ ozs.
Cross Pein Pin 3½ ozs.
Adze-Eye Claw 16, 20, 24 ozs.
Joiners' Warrington No. 00, 0, 1, 2, 3, 4.

Trowels

Section 1
Hand Tools

Unique skills and extra processes go into the manufacture of WHS and Tyzack Trowels.
Processes that are essential if the professional is to do a really tip top job. It has taken 140 years to perfect these exclusive techniques.

owels Spear & Jackson Hammers Bedford Chisels & Punches Tyzack
es Bedford Spanners & Sockets Spear & Jackson Saws WHS Trowels
Hammers Spear & Jackson Saws Tyzack Trowels Bedford Hammers
s Centurion Trowels SpearFiles Bedford Spanners & Sockets Spear &
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Jackson Saws Tyzack Trowels Centurion Trowels SpearFiles Bedfor
els WHS Trowels Spear & Jackson Hammers Bedford Chisels & Punch
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mmers Spear & Jackson Saws Tyzack Trowels Bedford Hammers WH
rowels Bedford Chisels & Punches Centurion Trowels Spear & Jackso
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kson Hammers Bedford Chisels & Punches Spear & Jackson Saws Ce
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Jackson Saws Tyzack Trowels Centurion Trowels SpearFiles Bedfor
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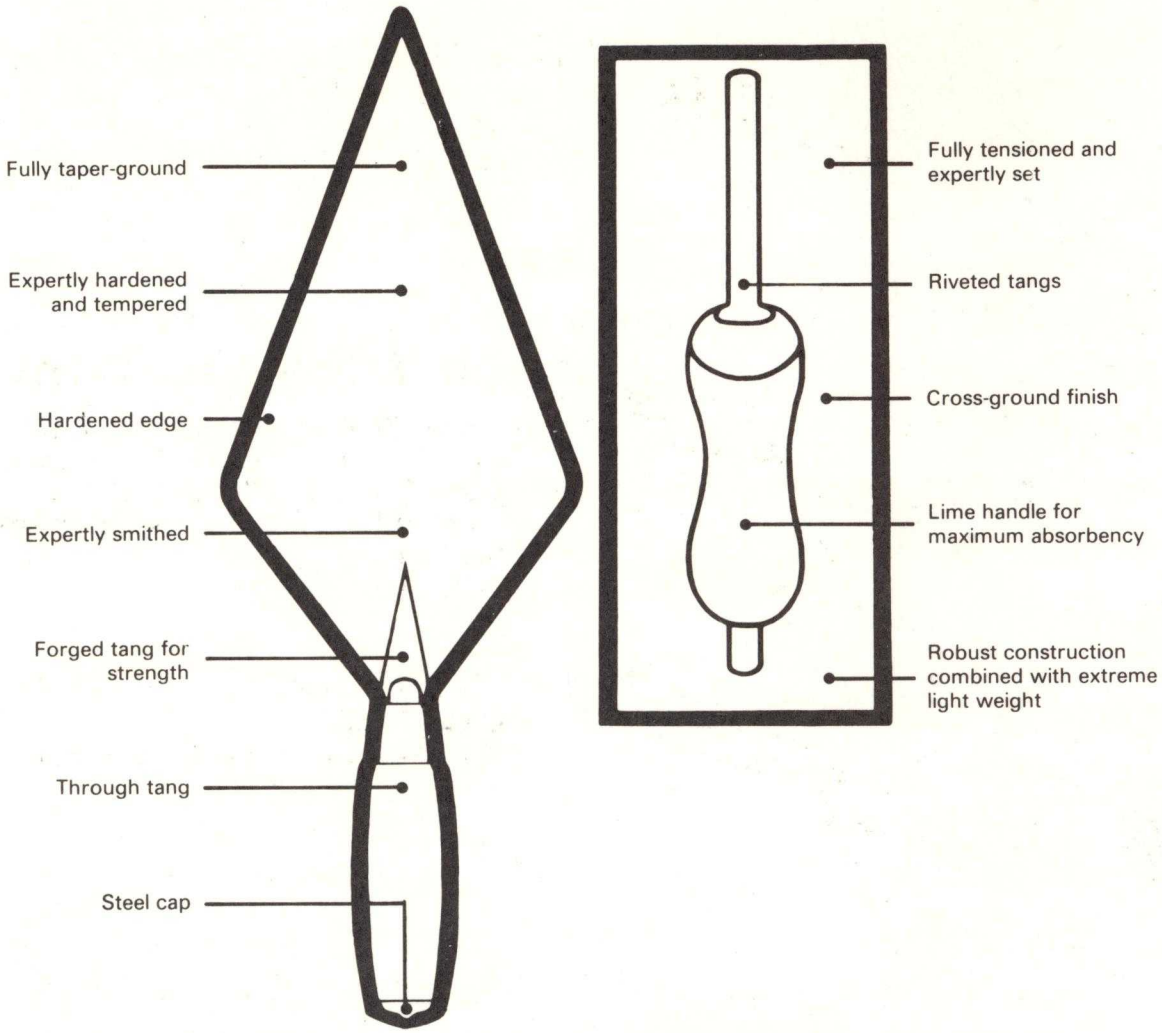
Bedford Spanners & Sockets Spear & Jackson Saws Centurion Trowel
mmers Spear & Jackson Saws Tyzack Trowels Bedford Hammers WH
rowels Bedford Chisels & Punches Centurion Trowels Spear & Jackso

Trowels
Technical Information

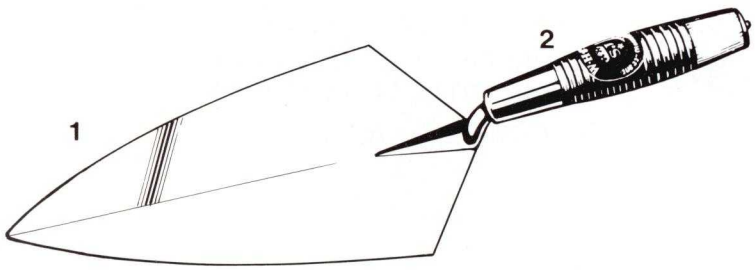
The professional looks for all these points



. . .and gets them all only in W·H·S & TYZACK trowels

BACKED BY 140 YEARS' EXPERIENCE

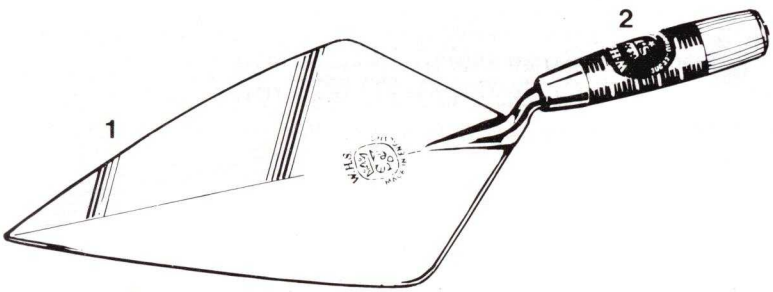
SPEAR & JACKSON Trowels



108 Canadian WHS

Code 10811

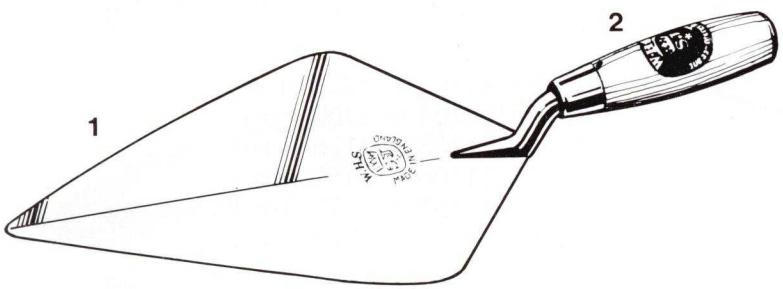
1. Flexible point 11″ × 5½″ (275 × 137 mm)
2. Leather bound, capped 5½″ (137 mm)



207 Broad Heel WHS

Code 20720

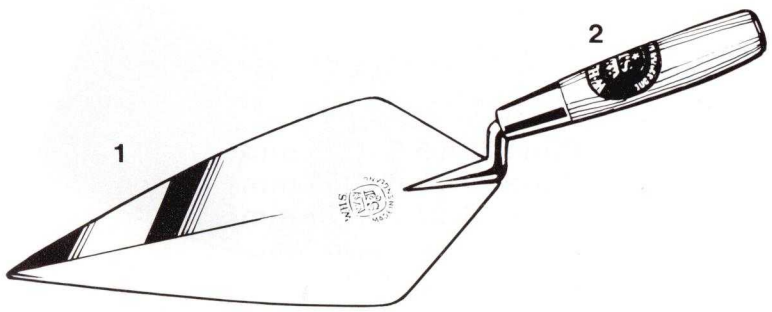
1. 11″ × 5¾″ (275 × 145 mm)
2. Leather bound, capped 4½″ (113 mm)



101 Broad Heel, WHS

1.Code 10110 10″ × 5½″ (250 × 137 mm)
Code 10111 11″ × 5¾″ (275 × 145 mm)
Code 10112 12″ × 6″ (305 × 150 mm)
***Code 10117 12″ × 6″ (305 × 150 mm)**

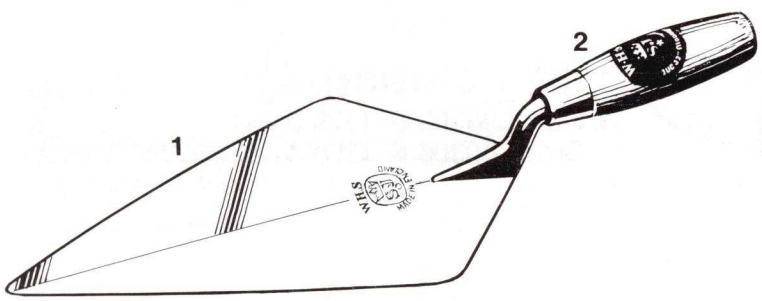
*Left Hand
2. Capped



202 Broad Heel WHS

Code 20212

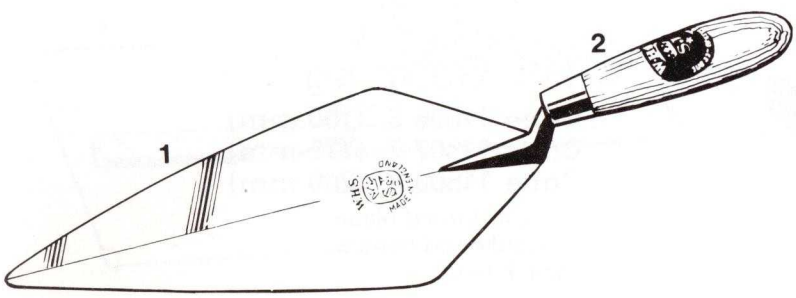
1. High lift tang 12″ × 6″ (305 × 150 mm)
2. Capped 6″ (150 mm)



104 Standard Width WHS

1.Code 10410 10″ × 4½″ (250 × 113 mm)
Code 10411 11″ × 4¾″ (275 × 120 mm)
Code 10412 12″ × 5″ (305 × 125 mm)
Code 10413 13″ × 5¼″ (325 × 133 mm)
***Code 10418 13″ × 5¼″ (325 × 133 mm)**

*Left Hand
2. Capped

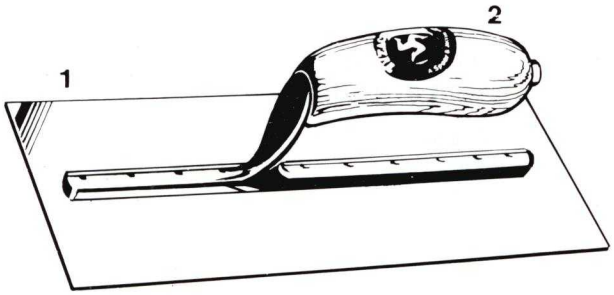


103 Standard Width WHS

1. Code 10310 10″ × 4½″ (250 × 113 mm)
Code 10311 11″ × 4¾″ (275 × 120 mm)
***Code 10316 11″ × 4¾″ (275 × 120 mm)**
Code 10312 12″ × 5″ (305 × 125 mm)

*Left Hand
2. London handle

SPEAR & JACKSON Trowels

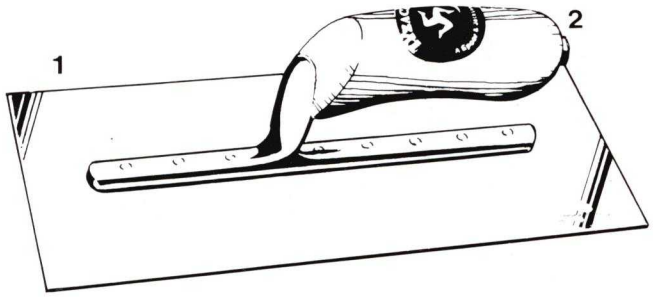


131 Finishing, Single Hang

Code 13100

1. 10 rivets 23 gauge (0.6 mm) 11 oz (319 g) 11″ × 4⅝″ (275 × 116 mm)
2. Banana handle

Tyzack label

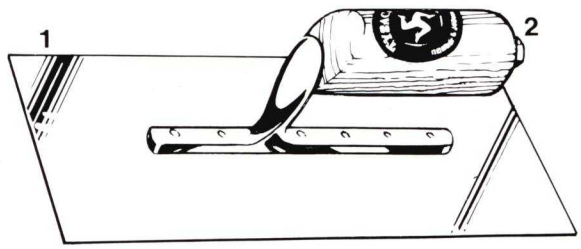


218 Finishing

Code 21800

1. 8 rivets, 22 gauge blade (0.7 mm) 12½ oz (354 g) 11″ × 4½″ (275 × 113 mm)
2. Banana handle

Tyzack label

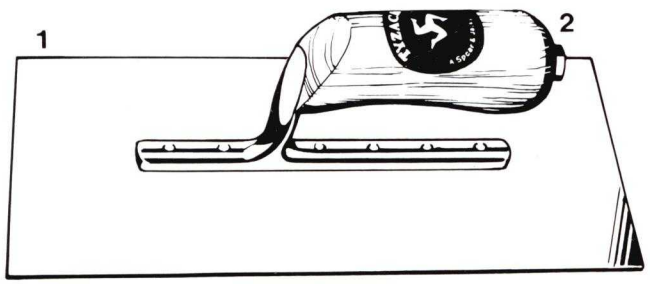


129 Laying-on

Code 12900

1. 6 rivets, 21 gauge blade (0.8 mm) 10½″ × 4¾″ (263 × 120 mm)
2. Straight handle

Tyzack label

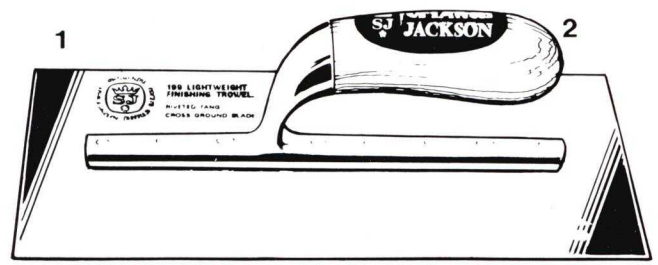


130 Laying-on

Code 13000

1. 6 rivets, 21 gauge blade (0.8 mm) 10½″ × 4¾″ (263 × 120 mm)
2. Banana handle

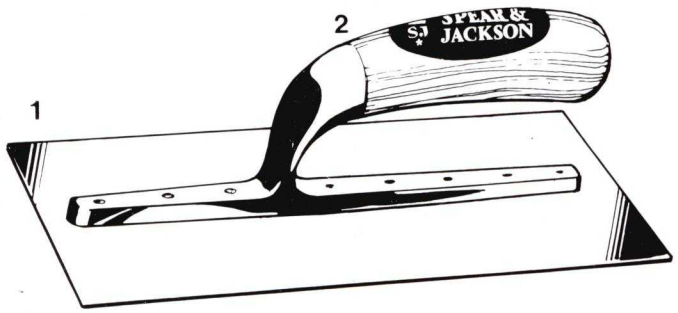
Tyzack label



199 Finishing/Continental

Code 19900

1. 8 rivets, 23 gauge blade (0.6 mm) 11″ × 4¾″ (275 × 120 mm)
2. Banana handle

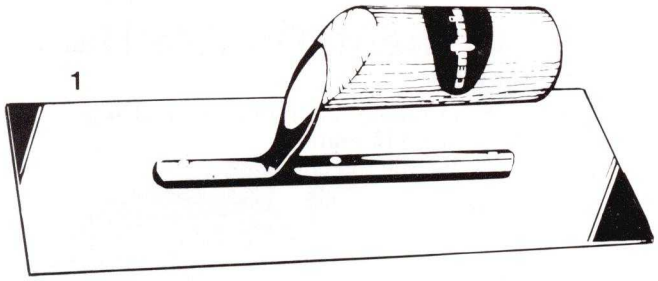


155 General Purpose/ Continental

Code 15500

1. 8 rivets, 21 gauge blade (0.8 mm) 11″ × 4¾″ (275 × 120 mm)
2. Banana handle

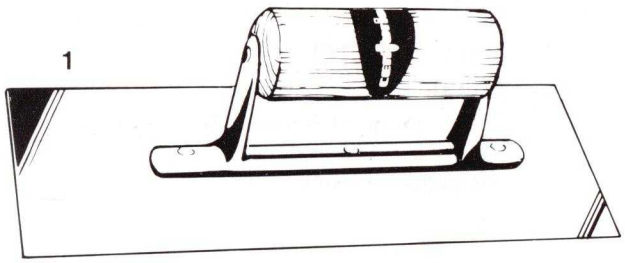
SPEAR & JACKSON Trowels



J9 Plastering, Single Hang

Code 00900

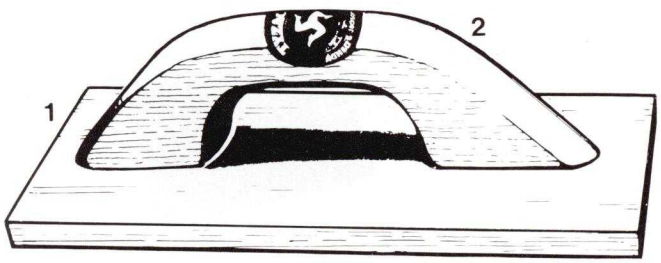
1. 3 rivets 10½″ × 4″ (250 × 113 mm)
2. Centurion label



J10 Plastering, Double Hang

Code 00910

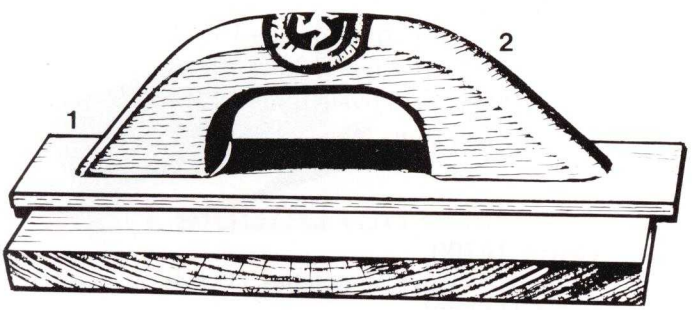
1. 3 rivets 10½″ × 4″ (250 × 113 mm)
2. Centurion label



700 Float/Straight Grained

Code 00700

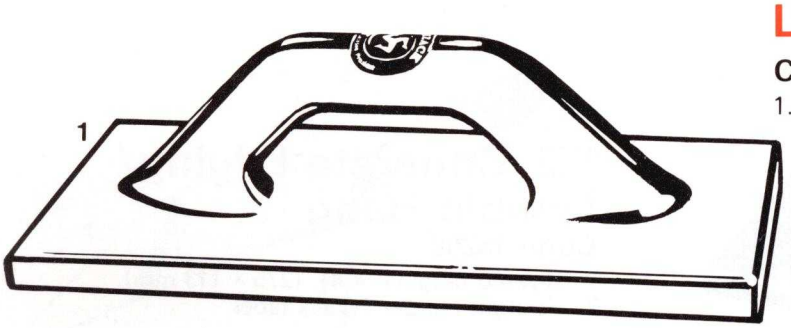
1. 11″ × 4½″ approx (275 × 113 mm) pine
2. Hardwood handle



701 Float/Cross Grained

Code 00701

1. 11″ × 4½″ approx (275 × 113 mm) pine
2. Hardwood handle Dovetail slide

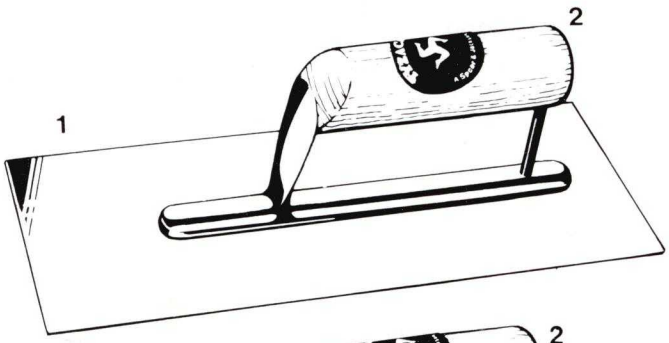


702 Plastic Float/ Lightweight

Code 00702

1. 13¾″ × 6″ (350 × 150 mm)

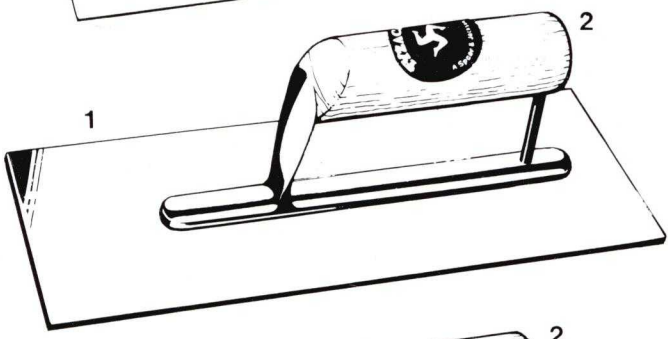
SPEAR & JACKSON Trowels



133 Cement/Double Hang

Code 13300

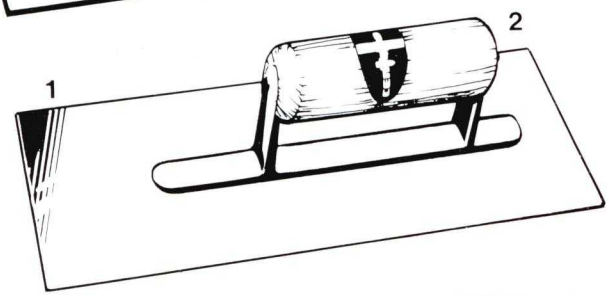
1. 6 rivets, 21 gauge (0.8 mm) 13½ oz (376 g) 11″ × 4½″ (275 × 113 mm)
2. Straight handle Tyzack label



150 Concreting/ Double Hang

Code 15000

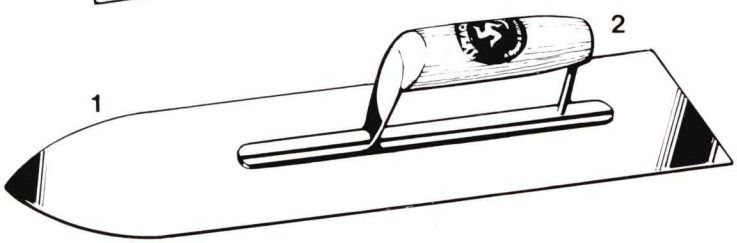
1. 6 rivets, 16 gauge (1.6 mm) 23½ oz (666 g) 11″ × 4½″ (275 × 113 mm)
2. Straight handle Tyzack label



J6 Concreting/ Double Hang

Code 00620

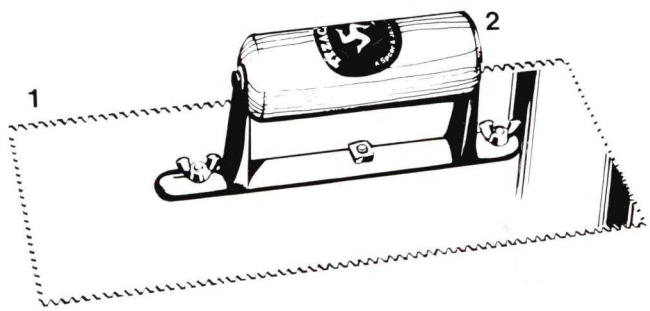
1. 6 rivets, 20 gauge (0.9 mm) 11″ × 4½″ (275 × 113 mm)
2. Straight handle Centurion label



137 Flooring/Double Hang

Code 13716

1. 14 (350mm) 7 rivets Code 13714
   16 (400mm) 7 rivets Code 13716
   18 (450mm) 8 rivets Code 13718
2. Tapered handle Tyzack label



147 Mastic/Double Hang

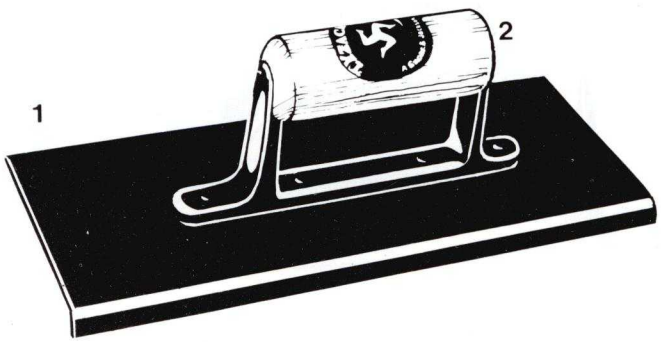
Code 14700

1. Serrated Edge 'V' notches 11″ × 4½″ (275 × 113 mm)
2. Straight handle

148 Spare Blade

Code 14800

Mastic Blade

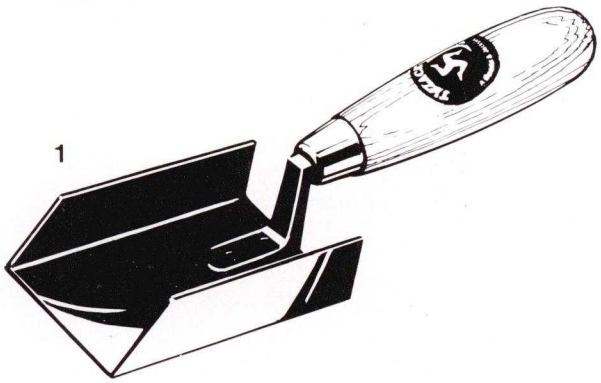


152 Concrete Edging/ Double Hang

Code 15200

1. Riveted tang 11″ × 4½″ (275 × 113 mm)
2. Straight handle Tyzack label

SPEAR & JACKSON Trowels

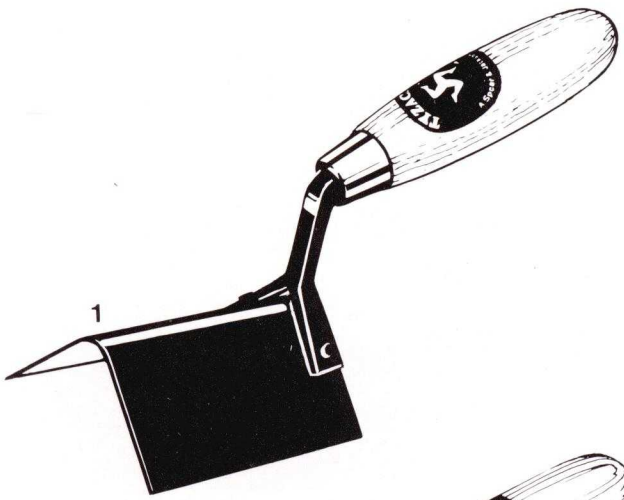


119 Angle
Code 11904

Square edges
1. 2½″ × 4″ (63 × 100 mm)
Tyzack label

171 Square External
Code 17100
(not illustrated)

1. 3½″ × 2″ (88 × 50 mm)
Tyzack label

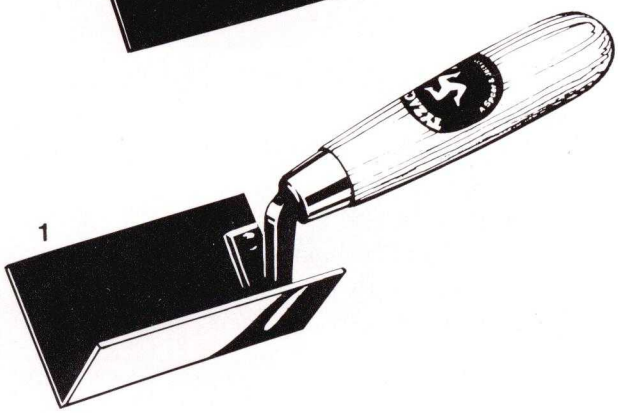


172 Round External
Code 17200

1. 3½″ × 2″ (88 × 50 mm)
Tyzack label

P172 External, with pencil radius
Code 17202
(not illustrated)

1. 3½″ × 2″ (88 x 50mm).
Tyzack label



173 Square Internal
Code 17300

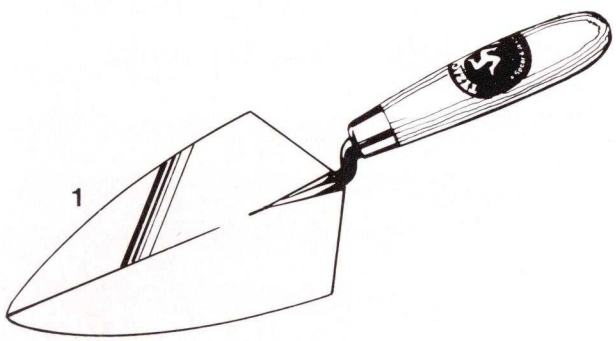
1. 3½″ × 2″ (88 × 50 mm)
Tyzack label

174 Round Internal
Code 17400
(not illustrated)

1. 3½″ × 2″ (88 × 50 mm)
Tyzack label

P174 Internal, with pencil radius
Code 17402
(not illustrated)

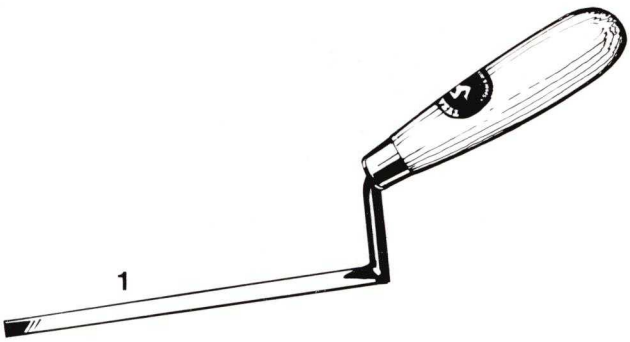
1. 3½″ × 2″ (88 x 50mm).
Tyzack label



158 Tiling
Code 15800

1. 6½″ (163 mm)
Tyzack label

SPEAR & JACKSON Trowels



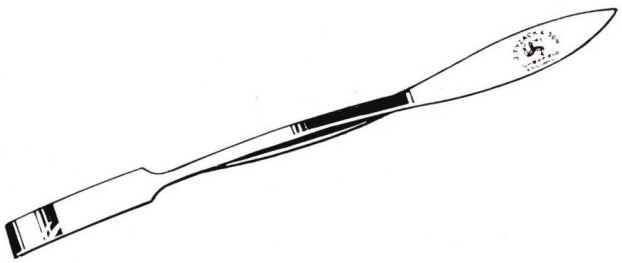
164 Window

Code 16412

1. 6″ × ½″ (150 × 12.7 mm)
Tyzack label

Code 16434

1. 6″ × ¾″ (150 × 19 mm)
Tyzack label



120 Leaf and Square

Code 12012

½″ (12.7 mm)

Code 12058

⅝″ (16.0 mm)
Tyzack

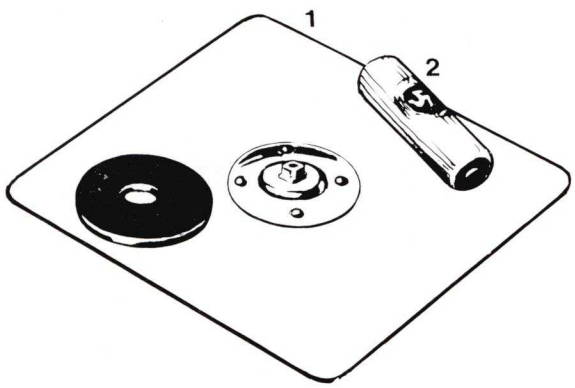
123 Trowel and Square

Code 12312

½″ (12.7 mm)

Code 12358

⅝″ (16.0 mm)
Tyzack



126 Aluminium Hawk

Code 12612

1. Non-slip surface, 12″ × 12″ (305 × 305 mm)
2. Detachable handle
Weight 1¾ lb (794 g)
Rubber hand cushion
Total weight 1¾ lbs. (794 g)
Tyzack label

Attractive Wire Merchandiser for pegboard or counter display. Containing five each of the following trowels

Code 00109M
J1/10″. J1/11″. J3/6″. J4/7″. J6. J9.

Code 00213J
J2/10″. J2/11″. J3/6″. J4/7″. J6. J9.

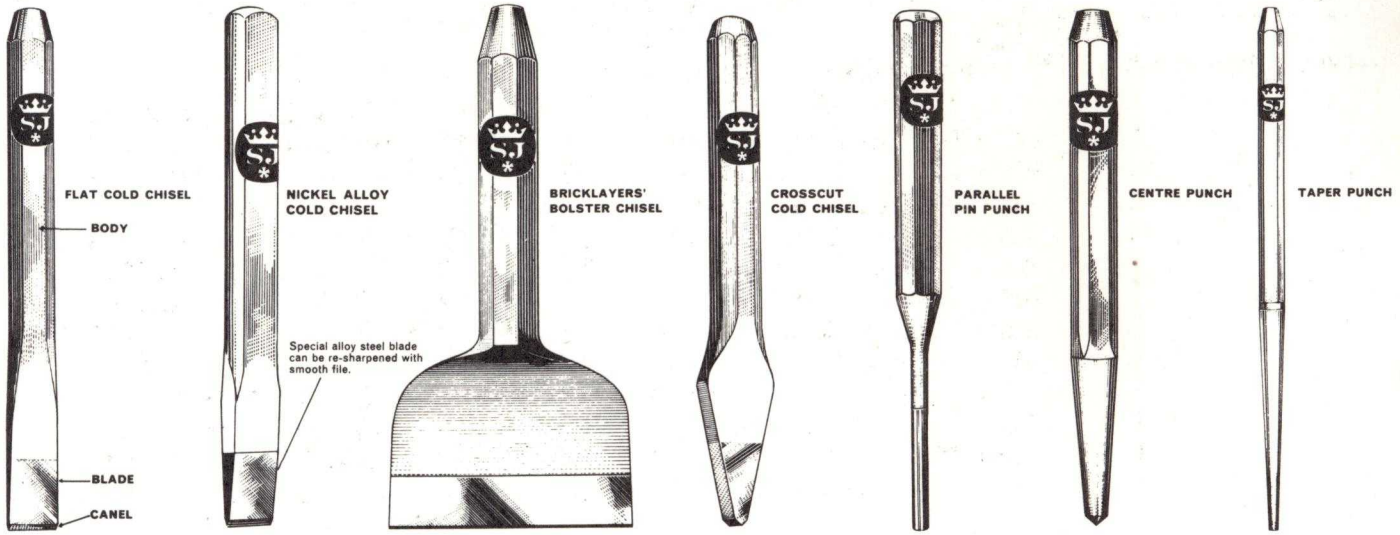
Chisels & Punches

Section 1
Hand Tools

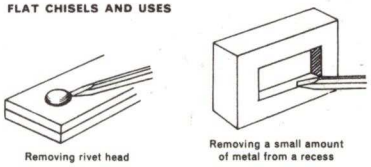
Spear and Jackson Chisels and Punches meet the range requirements of the Engineering, Building and Allied trades. Manufactured from high quality Alloy, and section carbon steel at our Bedford Factory, Sheffield, the fully ground and sharpened tools are easily identifiable by the gold or silver lacquer finish.

Chisels & Punches

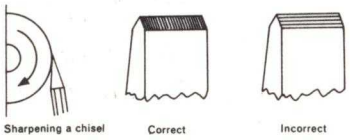
Technical Information



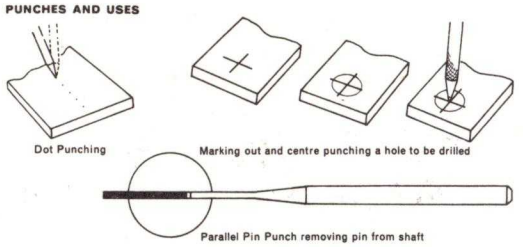
FLAT CHISELS AND USES



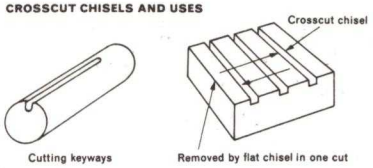
SHARPENING



PUNCHES AND USES



CROSSCUT CHISELS AND USES

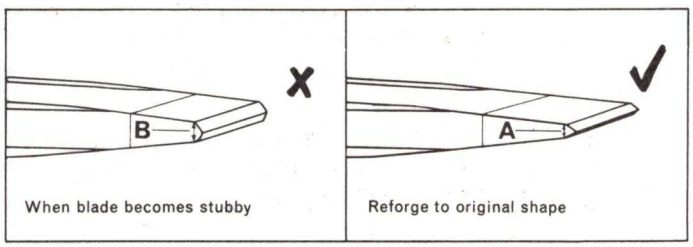


ANGLES

METAL TO BE CUT	CUTTING ANGLE
IRON AND STEEL	60°
COPPER AND BRASS	45°
ALUMINIUM	30°

SOME USEFUL SAFETY HINTS AND TIPS

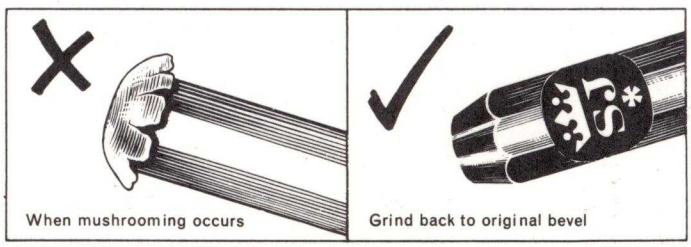
DO



(1) **DO:** Select the right chisel for the job. A wide chisel used on a small job will get unbalanced drive and may fracture at the edge.

(2) **DO:** Keep your chisel sharp and at the right secondary angle. This should be approx. 60° between the bevels.

DON'T



(1) **DON'T:** Engage the edge of the chisel only — a fracture may occur if you do. The full width of the cutting edge must be used.

(2) **DON'T:** Try to file a new cutting edge on a cast steel chisel — grinding is essential.

(3) **DON'T:** Hold the chisel too tightly. If you do, and the blade slips on the work, you may damage your hand on the cut material.

(4) **DON'T:** Hold the chisel at the lower end. About one inch below the top of the head is correct. If the hammer slips while chisel is held in this position, you are unlikely to damage your hand.

(5) **DON'T:** Use your chisel as a crow-bar or lever. One end is hard, the other soft. Leverage may cause fracture or bending.

SPEAR & JACKSON Chisels /Bolsters
(Hexagon)

4″ × 1/4″ (100 × 6 mm) Code No. 06000
5″ × 3/8″ (130 × 9.5 mm) Code No. 06008
6″ × 1/4″ (155 × 6 mm) Code No. 06011
6″ × 3/8″ (155 × 9.5 mm) Code No. 06013
6″ × 1/2″ (155 × 13 mm) Code No. 06017
7″ × 5/8″ (180 × 16 mm) Code No. 06025
8″ × 1/2″ (205 × 13 mm) Code No. 06036
8″ × 5/8″ (205 × 16 mm) Code No. 06038
8″ × 3/4″ (205 × 19 mm) Code No. 06041
8″ × 1″ (205 × 25 mm) Code No. 06050
9″ × 3/4″ (230 × 19 mm) Code No. 06059
9″ × 7/8″ (230 × 22 mm) Code No. 06063
9″ × 1″ (230 × 25 mm) Code No. 06071

300 Flat

10″ × 1/2″ (255 × 13 mm) Code No. 06075
10″ × 5/8″ (255 × 16 mm) Code No. 06079
10″ × 3/4″ (255 × 19 mm) Code No. 06083
10″ × 7/8″ (255 × 22 mm) Code No. 06086
10″ × 1″ (255 × 25 mm) Code No. 06088
12″ × 1/2″ (305 × 13 mm) Code No. 06093
12″ × 3/4″ (305 × 19 mm) Code No. 06097
12″ × 1″ (305 × 25 mm) Code No. 06102
14″ × 3/4″ (355 × 19 mm) Code No. 06108
18″ × 3/4″ (460 × 19 mm) Code No. 06124
18″ × 1″ (460 × 25 mm) Code No. 06128
24″ × 3/4″ (610 × 19 mm) Code No. 06132
24″ × 1″ (610 × 25 mm) Code No. 06134
For cutting steel, brick and concrete

301 Crosscut

5″ × 3/16″ (130 × 5 mm) Code No. 05009
6″ × 1/4″ (155 × 6 mm) Code No. 05018
8″ × 3/8″ (205 × 9.5 mm) Code No. 05043
10″ × 1/2″ (255 × 13 mm) Code No. 05089
For cutting keyways or flat bottomed grooves

302 Half Round

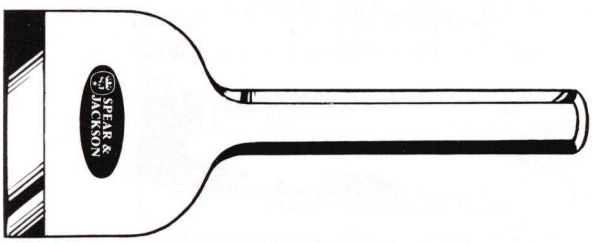
6″ × 1/4″ (155 × 6 mm) Code No. 13018
8″ × 3/8″ (205 × 9.5 mm) Code No. 13043
Used for cutting round bottomed grooves in steel, such as oil grooves

304 Diamond

6″ × 1/4″ (155 × 6 mm) Code No. 02018
8″ × 3/8″ (205 × 9.5 mm) Code No. 02043
For squaring out corners in keyways and cutting V-shaped grooves in steel

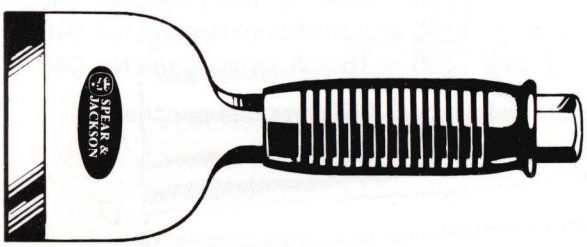
305 Plugging

10″ × 1/4″ (255 × 6 mm) Code No. 09081
Designed to remove mortar from between bricks to insert wooden plugs or before pointing



306 Brick Bolster

9″ × 3″ (230 × 75 mm) Code No. 15067
9″ × 3 1/2″ (230 × 90 mm) Code No. 15068
9″ × 4″ (230 × 100 mm) Code No. 15069
For cutting bricks and stone



310 Brick Bolster

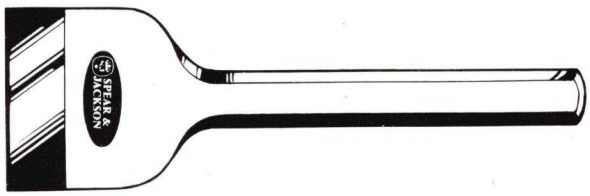
9″ × 4″ (230 × 100 mm) Code No. 00100
9″ × 4 1/2″ (230 × 115 mm) Code No. 00115
Rubber grip

SPEAR & JACKSON Chisels /Punches (Hexagon)

307 Bull Point or Concrete

12″ × ¾″ (305 × 19 mm) Code No. 10097

For bursting concrete and brickwork



308 Flooring or Electricians'

9″ × 2½″ (230 × 65 mm) Code No. 17058

For cutting off the tongue in floorboarding

330 Cupped Nail Sets

4″ × 5/16″ × ⅛″ (100 × 8 × 3mm) Code No. 00005

For deep seating of pins and nails

331 Parallel Pin Punches

4″ × 5/16″ × 1/16″ (100 × 8 × 1.5 mm) Code No. 03003
4″ × 5/16″ × ⅛″ (100 × 8 × 3 mm) Code No. 03005
4″ × 5/16″ × 3/16″ (100 × 8 × 5 mm) Code No. 03007
4″ × ⅜″ × ¼″ (100 × 9.5 × 6 mm) Code No. 03013
4″ × ⅜″ × 5/16″ (100 × 9.5 × 8 mm) Code No. 03014
6″ × ⅜″ × ⅛″ (155 × 9.5 × 3 mm) Code No. 03029
6″ × ⅜″ × 3/16″ (155 × 9.5 × 5 mm) Code No. 03031
6″ × ⅜″ × ¼″ (155 × 9.5 × 6 mm) Code No. 03033

For removing pins, after pins have been started by Taper Punch to avoid damage to points

332 Corrugated Iron or Roofing Punch

7″ × 5/8″ × ⅜″ (100 × 16 × 9.5 mm) Code No. 01060

For punching holes in corrugated iron

333 Centre Punch

4″ × ⅜″ (100 × 9.5 mm) Code No. 02009
5″ × ½″ (130 × 13 mm) Code No. 02024
6″ × 5/8″ (155 × 16 mm) Code No. 02049

For marking out before drilling

334 Taper Punch

6″ × ⅜″ × ⅛″ (155 × 9.5 × 3 mm) Code No. 04029
6″ × ½″ × 3/16″ (155 × 13 × 5 mm) Code No. 04044
10″ × 5/8″ × ¼″ (255 × 16 × 6 mm) Code No. 04072

For starting jobs prior to using other punches

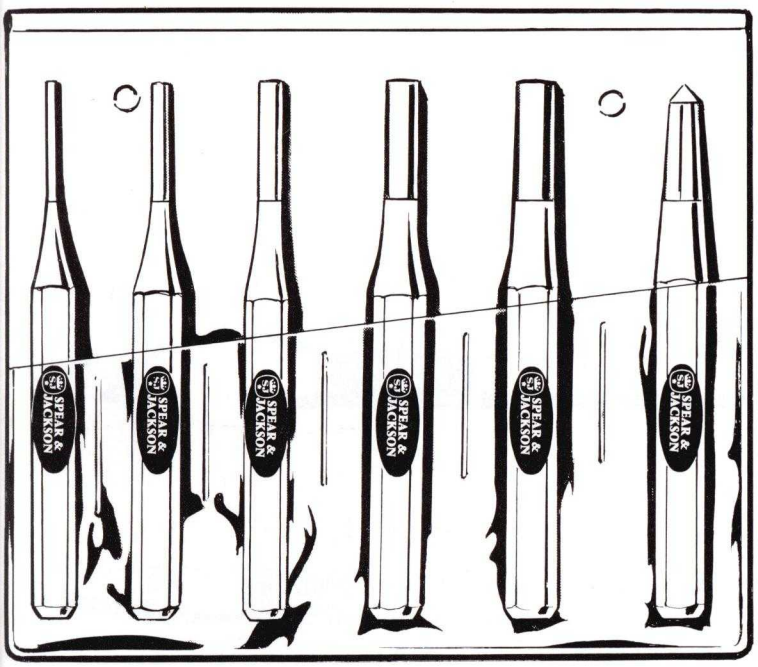
SPEAR & JACKSON Chisel/Punch Sets

Set 342R

Code 02100

Containing:

300/7″ × $\frac{5}{8}$″ Flat Cold Chisel
300/6″ × $\frac{1}{2}$″ Flat Cold Chisel
300/4″ × $\frac{1}{4}$″ Flat Cold Chisel
301/6″ × $\frac{1}{4}$″ Crosscut Cold Chisel
331/4″ × $\frac{5}{16}$″ × $\frac{1}{8}$″ Parallel PinPunch
331/4″ × $\frac{5}{16}$″ × $\frac{3}{16}$″ Parallel PinPunch
331/4″ × $\frac{3}{8}$″ × $\frac{1}{4}$″ Parallel Pin Punch
333/4″ × $\frac{3}{8}$″ Centre Punch
334/6″ × $\frac{1}{2}$″ × $\frac{3}{16}$″ TaperPunch

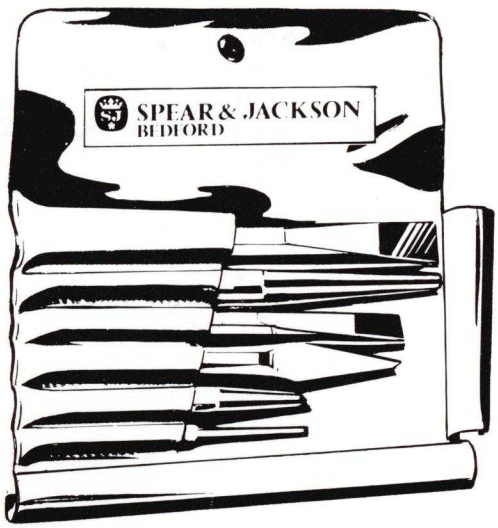


Set 346R

Code 06100

Containing:

331/4″ × $\frac{5}{16}$″ × $\frac{1}{16}$″ Parallel PinPunch
331/4″ × $\frac{3}{8}$″ × $\frac{1}{4}$″ Parallel Pin Punch
331/4″ × $\frac{5}{16}$″ × $\frac{1}{8}$″ Parallel PinPunch
331/4″ × $\frac{3}{8}$″ × $\frac{5}{16}$″ Parallel PinPunch
331/4″ × $\frac{5}{16}$″ × $\frac{3}{16}$″ Parallel PinPunch
333/4″ × $\frac{3}{8}$″ Centre Punch

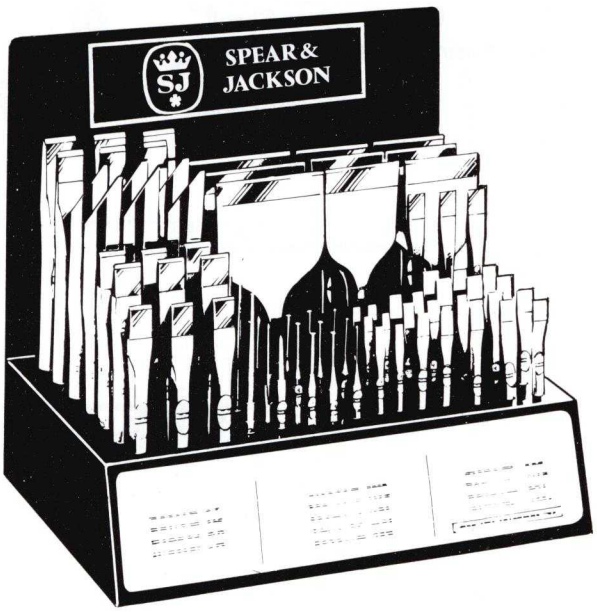


Set 347

Code 07100

Containing:

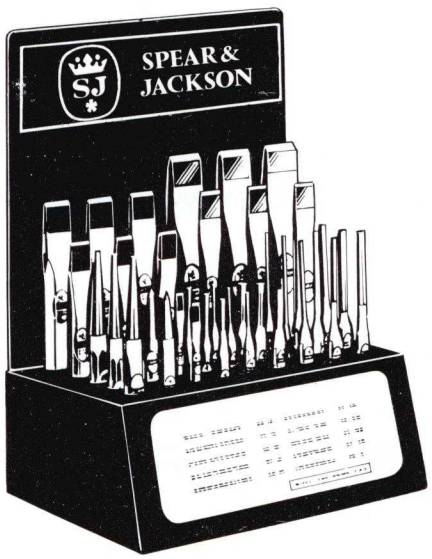
300/6″ × $\frac{1}{2}$″ Flat Cold Chisel
300/5″ × $\frac{3}{8}$″ Flat Cold Chisel
301/5″ × $\frac{3}{16}$″ Crosscut Cold Chisel
334/6″ × $\frac{3}{8}$″ × $\frac{1}{8}$″ Taper Punch
331/4″ × $\frac{5}{16}$″ × $\frac{1}{8}$″ Parallel PinPunch
333/4″ × $\frac{3}{8}$″ Centre Punch



352 Merchandiser

Complete with 72 assorted Chisels, Bolsters & Punches
Code No. 13300

6 Flat Cold Chisels	4″ x $\frac{1}{4}$″
6 Flat Cold Chisels	5″ x $\frac{3}{8}$″
6 Flat Cold Chisels	6″ x $\frac{3}{8}$″
6 Flat Cold Chisels	6″ x $\frac{1}{2}$″
3 Flat Cold Chisels	7″ x $\frac{5}{8}$″
3 Flat Cold Chisels	8″ x $\frac{1}{2}$″
6 Flat Cold Chisels	8″ x $\frac{3}{4}$″
3 Flat Cold Chisels	10″ x $\frac{3}{4}$″
3 Flat Cold Chisels	10″ x 1″
6 Flooring Chisels	9″ x 2$\frac{1}{2}$″
3 Bricklayers Bolsters	9″ x 3$\frac{1}{2}$″
6 Fluted Plugging Chisels	10″
3 Centre Punches	4″ x $\frac{3}{8}$″
3 Parallel Pin Punches	4″ x $\frac{1}{16}$″
3 Parallel Pin Punches	4″ x $\frac{1}{8}$″
3 Parallel Pin Punches	4″ x $\frac{3}{16}$″
3 Taper Punches	6″ x $\frac{3}{8}$″ x $\frac{1}{8}$″



353 Mini-Merchandiser

Complete with 39 assorted Chisels & Punches
Code No. 13400

3 only Flat Cold Chisels	4″ x $\frac{1}{4}$″
3 only Flat Cold Chisels	6″ x $\frac{1}{2}$″
3 only Flat Cold Chisels	7″ x $\frac{5}{8}$″
3 only Flat Cold Chisels	8″ x $\frac{3}{4}$″
3 only Flat Cold Chisels	9″ x 1″
3 only Parallel Pin Punches	4″ x $\frac{1}{8}$″
3 only Parallel Pin Punches	4″ x $\frac{3}{16}$″
3 only Parallel Pin Punches	4″ x $\frac{1}{4}$″
3 only Parallel Pin Punches	6″ x $\frac{1}{8}$″
3 only Parallel Pin Punches	6″ x $\frac{3}{16}$″
3 only Parallel Pin Punches	6″ x $\frac{1}{4}$″
3 only Centre Punches	4″ x $\frac{3}{8}$″
3 only Taper Punches	6″ x $\frac{1}{2}$″ x $\frac{3}{16}$″

SPEAR & JACKSON Chisels (Golden Crown)

'GOLDEN CROWN' Alloy Chisels are specially designed for use where re-grinding facilities are not available, they may easily be re-sharpened with a smooth 'SPEARFILE'.

They are tough and able to withstand considerable shock, whilst having the additional safety feature of soft state heads, which prevent chipping and possible injury to the user.

The **'GOLDEN CROWN'** range is suitable for use in the home and the workshop. They are ideal for craftsmen and engineers on maintenance and repair jobs away from the depot.

380 Flat

5″ × 3/8″ (130 × 9.5mm)	Code No. 00008
6″ × 1/2″ (155 × 13mm)	Code No. 00017
7″ × 5/8″ (180 × 16mm)	Code No. 00025
8″ × 1/2″ (205 × 13mm)	Code No. 00036
8″ × 3/4″ (205 × 19mm)	Code No. 00041
9″ × 3/4″ (230 × 19mm)	Code No. 00059
9″ × 7/8″ (230 × 22mm)	Code No. 00063
9″ × 1″ (230 × 25mm)	Code No. 00071
10″ × 3/4″ (255 × 19mm)	Code No. 00083
10″ × 7/8″ (255 × 22mm)	Code No. 00100
10″ × 1″ (255 × 25mm)	Code No. 00088
12″ × 3/4″ (305 × 19mm)	Code No. 00097
12″ × 1″ (305 × 25mm)	Code No. 00102

For cutting steel, brick and concrete.

381 Crosscut

8″ × 3/8″ (205 × 9.5mm) Code No. 10030

For cutting Keyways or flat bottomed grooves.

382 Diamond

8″ × 3/8″ (205 × 9.5mm) Code No. 20030

For squaring out corners in keyways and cutting V-shaped grooves in steel.

383 Half Round

8″ × 3/8″ (205 × 9.5mm) Code No. 30030

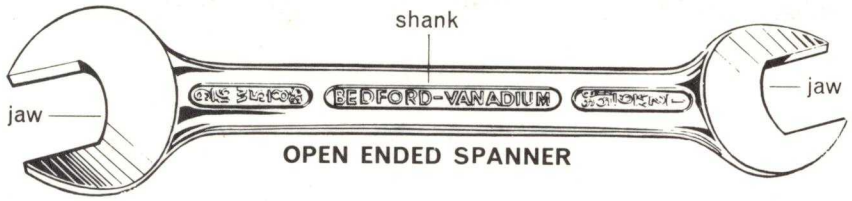
Used for cutting round bottomed grooves such as oil grooves.

Spanners Sockets & Accessories

Section 2
Engineering Tools

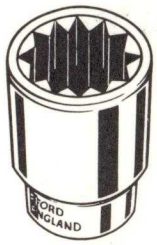
Spear and Jackson "Bedford" Spanners, Sockets and Accessories are produced in our own works from high grade chrome vanadium alloy steel.
We forge our own tools and carry out the delicate heat treatment and rigid temperature control which ensures absolute uniformity in hardness and tensile strength.
Extra slim — Extra tough, permitting usage in confined spaces.

Spanners Sockets & Accessories
Technical Information

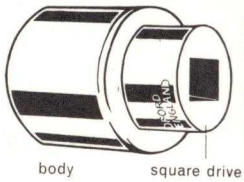


OPEN ENDED SPANNER

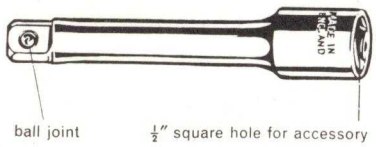
RING SPANNER



SOCKET SPANNER
12 teeth (bi-hexagon — this end engages nut)



SOCKET SPANNER ACCESSORY
Accessory showing ball joint and how it engages socket (into square drive)

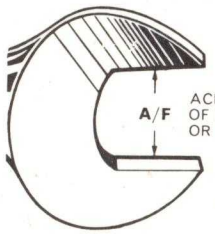


WHAT'S THE DIFFERENCE IN WHITWORTH — A/F — METRIC?

How to select the correct spanners for the job.

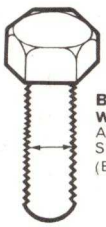
Originally, most British manufacturers incorporated Whitworth nuts on their equipment. Recently, many manufacturers have started to include A/F sizes — and, of course, the Continental Metric sizes are being used on a wide scale.

If you are uncertain as to the size of spanners required, measure the nut across the flats, in inches, and consult your Conversion Chart.



ACROSS FLATS OF NUT

METRIC— ACROSS FLATS OF NUT BUT MEASURED IN MILLIMETRES



B.S. and WHITWORTH SIZES ARE THE DIAMETER SIZE OF THE BOLT (B.S. dia. + 1/16" = Whit.

SOME USEFUL SAFETY HINTS AND TIPS

DO

(1) **DO:** Keep Whitworth, A/F and Metric spanners separate from each other for easy identification.

(2) **DO:** Use penetrating oil on stubborn nuts before removal -- it saves broken nuts, stripped threads and barked knuckles.

(3) **DO:** Keep plug sockets square on the nut. Side pressure may crack the insulation.

(4) **DO:** Make use of Short Series spanners and sockets for restricted spaces — they are designed specially for these conditions.

DON'T

(1) **DON'T:** Use a tube or a hammer on the end of a spanner. You will either strip the bolt or break the nut. You will certainly damage the tool.

(2) **DON'T:** Use packing to make a spanner fit — get the right spanner.

(3) **DON'T USE INFERIOR SPANNERS: —** A good spanner is made from genuine heat treated Chrome Vanadium steel and jaw tolerances are accurate to B.S.S. limits, giving much longer life.

SPEAR & JACKSON Conversion Tables

Equivalent for inches . . . .

ins	mm	BA	BS ins	W ins	A/F ins	ins	mm	BS ins	W ins	A/F ins
0·117		10				0·748	19			
0·125					1/8	0·750				3/4
0·131		9				0·781				
0·152		8				0·787	20			
0·172		7				0·812				13/16
0·187					3/16	0·820		1/2	7/16	
0·193		6				0·826	21			
0·197	5					0·866	22			
0·218					7/32	0·875				7/8
0·220		5				0·905	23			
0·236	6					0·920		9/16	1/2	
0·248		4				0·937				15/16
0·250					1/4	0·944	24			
0·276	7					0·968				
0·281					9/32	0·984	25			
0·282		3				1·000				1
0·312					5/16	1·010		5/8	9/16	
0·316	8					1·023	26			
0·324		2				1·062	27			1 1/16
0·338			3/16	1/8		1·100		11/16	5/8	
0·343					11/32	1·102	28			
0·345	9					1·125				1 1/8
0·365		1				1·141	29			
0·375					3/8	1·181	30			
0·394	10					1·187				1 3/16
0·406						1·200		3/4	11/16	
0·413		0	7/32			1·220	31			
0·433	11					1·250				1 1/4
0·437					7/16	1·259	32			
0·445			1/4	3/16		1·300	33	7/8	3/4	
0·469						1·312				1 5/16
0·472	12					1·375				1 3/8
0·500					1/2	1·377	35			
0·512	13					1·390		15/16	13/16	
0·525			5/16	1/4		1·417	36			
0·551	14					1·437				1 7/16
0·562					9/16	1·480		1	7/8	
0·590	15					1·496	38			
0·593						1·500				1 1/2
0·600			3/8	5/16		1·535	39			
0·625					5/8	1·562				1 9/16
0·629	16					1·574	40			
0·656						1·580			15/16	
0·669	17					1·614	41			
0·687					11/16	1·625				1 5/8
0·708	18					1·653	42			
0·710			7/16	3/8		1·670		1 1/8	1	

Dimensions of spanners for unified hexagon sizes (B.S. 1768 normal series and B.S. 1769 heavy series)

All dimensions are in inches

Designation and marking (Figures to be followed by A/F)		Dimensions across jaws of spanners		Nominal bolt diameter and nominal nut size for which spanner is suitable				Max. dimension of hex nut across flats
				Normal Series		Heavy Series		
Actual	Size across Flats	Min.	Max.	Bolts	Nuts	Bolts	Nuts	
44	7/16	0·440	0·444	1/4	1/4			0·4375
50	1/2	0·504	0·508	5/16	5/16			0·5000
56	9/16	0·566	0·570	3/8	3/8			0·5625
62	5/8	0·630	0·635	7/16				0·6250
69	11/16	0·692	0·697		7/16			0·6875
75	3/4	0·755	0·760	1/2	1/2			0·7500
81	13/16	0·817	0·822	9/16				0·8125
88	7/8	0·880	0·885		9/16	1/2	1/2	0·8750
94	15/16	0·943	0·949	5/8	5/8			0·9375
100	1	1·006	1·012					1·0000
106	1 1/16	1·069	1·076			5/8	5/8	1·0625
112	1 1/8	1·132	1·139	3/4	3/4			1·1250
125	1 1/4	1·258	1·266			3/4	3/4	1·2500
131	1 5/16	1·321	1·330	7/8	7/8			1·3125
144	1 7/16	1·446	1·455			7/8	7/8	1·4375
150	1 1/2	1·509	1·518	1	1			1·5000
162	1 5/8	1·635	1·645			1	1	1·6250
181	1 13/16	1·823	1·834			1 1/8	1 1/8	1·8125
200	2	2·012	2·024			1 1/4	1 1/4	2·0000
219	2 3/16	2·201	2·214			1 3/8	1 3/8	2·1875
238	2 3/8	2·389	2·403			1 1/2	1 1/2	2·3750
275	2 3/4	2·765	2·780			1 3/4	1 3/4	2·7500
312	3 1/8	3·141	3·157			2	2	3·1250

The above extract from B.S. 192 'Open-Ended Spanners' is reproduced by permission of the British Standards Institution.

International Colour Codes On Boxes Wallets & Merchandisers

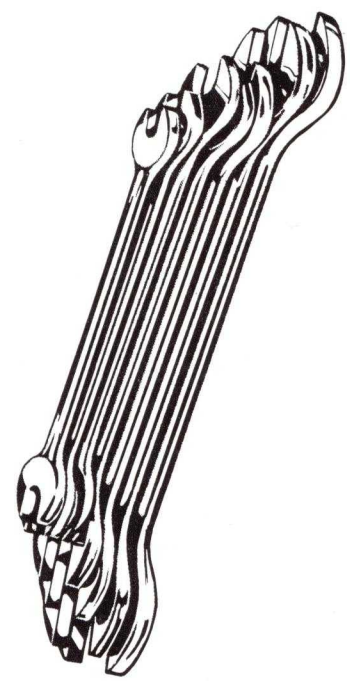
Red = Whitworth
Green = Metric
Blue = A/F

SPEAR & JACKSON Spanners

Open Ended Spanners Standard Length

Chrome Vanadium, Chrome Plated and Polished.

Whitworth (ins)		A/F (ins)		Metric (mm)	
Ref. No.	AxB (ins)	Ref. No.	A x B (ins)	Ref. No.	AxB (mm)
OW-46	$\frac{1}{8}\times\frac{3}{16}$	OA-68	$\frac{3}{16}\times\frac{1}{4}$	OM-67	6×7
OW-68	$\frac{3}{16}\times\frac{1}{4}$	OA-810	$\frac{1}{4}\times\frac{5}{16}$	OM-89	8×9
OW-810	$\frac{1}{4}\times\frac{5}{16}$	OA-1012	$\frac{5}{16}\times\frac{3}{8}$	OM-1011	10×11
OW-1012	$\frac{5}{16}\times\frac{3}{8}$	OA-1214	$\frac{3}{8}\times\frac{7}{16}$	OM-1113	11×13
OW-1214	$\frac{3}{8}\times\frac{7}{16}$	OA-1416	$\frac{7}{16}\times\frac{1}{2}$	OM-1213	12×13
OW-1416	$\frac{7}{16}\times\frac{1}{2}$	OA-1618	$\frac{1}{2}\times\frac{9}{16}$	OM-1214	12×14
OW-1618	$\frac{1}{2}\times\frac{9}{16}$	OA-1820	$\frac{9}{16}\times\frac{5}{8}$	OM-1415	14×15
OW-1620	$\frac{1}{2}\times\frac{5}{8}$	OA-2022	$\frac{5}{8}\times\frac{11}{16}$	OM-1417	14×17
OW-1820	$\frac{9}{16}\times\frac{5}{8}$	OA-2024	$\frac{5}{8}\times\frac{3}{4}$	OM-1617	16×17
OW-1822	$\frac{9}{16}\times\frac{11}{16}$	OA-2224	$\frac{11}{16}\times\frac{3}{4}$	OM-1719	17×19
OW-2024	$\frac{5}{8}\times\frac{3}{4}$	OA-2428	$\frac{3}{4}\times\frac{7}{8}$	OM-1819	18×19
OW-2224	$\frac{11}{16}\times\frac{3}{4}$	OA-2628	$\frac{13}{16}\times\frac{7}{8}$	OM-1922	19×22
OW-2022	$\frac{5}{8}\times\frac{11}{16}$	OA-2832	$\frac{7}{8}\times1$	OM-2022	20×22
OW-2226	$\frac{11}{16}\times\frac{13}{16}$	OA-3032	$\frac{15}{16}\times1$	OM-2123	21×23
OW-2428	$\frac{3}{4}\times\frac{7}{8}$	OA-3036	$\frac{15}{16}\times1\frac{1}{8}$	OM-2224	22×24
OW-2832	$\frac{7}{8}\times1$	OA-3436	$1\frac{1}{16}\times1\frac{1}{8}$	OM-2426	24×26
OW-3236	$1\times1\frac{1}{8}$	OA-4046	$1\frac{1}{4}\times1\frac{7}{16}$	OM-2427	24×27
		OA-4248	$1\frac{5}{16}\times1\frac{1}{2}$	OM-2528	25×28
				OM-2729	27×29
				OM-2730	27×30
				OM-2732	27×32
				OM-3032	30×32
				OM-3236	32×36
				OM-3641	36×41
				OM-4146	41×46



Open Ended Spanners Standard Length Sets – boxed

A selection of Sets comprising sizes most widely used.
Supplied in Cardboard boxes.

Whitworth

Ref. No.	1	2	3	4	5	6	7	8
OWS-5B	$\frac{3}{16}\times\frac{1}{4}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$			
OWS-6	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$		
OWS-7	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	

A/F

OAS-6	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$		
OAS-7	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$	$\frac{3}{4}\times\frac{7}{8}$	

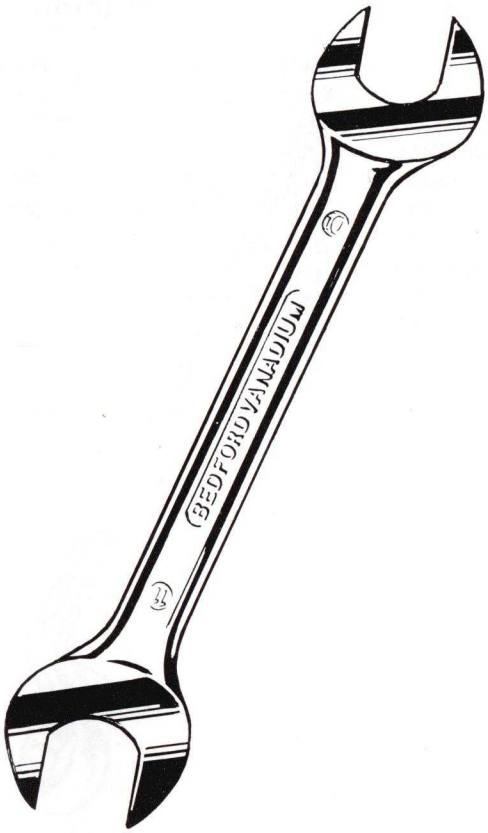
Metric

OMS-6	8×9	10×11	12×13	14×15	16×17	18×19		
OMS-7	8×9	10×11	12×13	14×15	16×17	18×19	20×22	
OMS-8	6×7	8×9	10×11	12×13	14×15	16×17	18×19	20×22

SPEAR & JACKSON Spanners

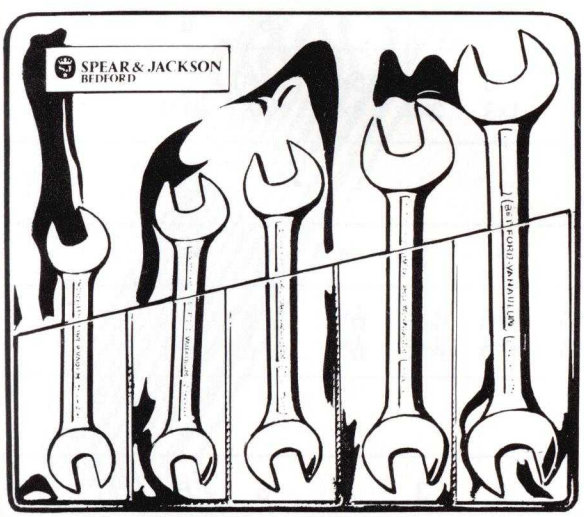
Open Ended Spanners Short Series

Chrome Vanadium. Chrome Plated and Polished.



Whitworth (ins)		A/F (ins)		Metric (mm)	
Ref. No.	AxB (ins)	Ref. No.	AxB (ins)	Ref. No.	AxB (mm)
WO-64	$\frac{1}{8}\times\frac{3}{16}$	AO-1412	$\frac{3}{8}\times\frac{7}{16}$	MO-76	6×7
WO-86	$\frac{3}{16}\times\frac{1}{4}$	AO-1614	$\frac{7}{16}\times\frac{1}{2}$	MO-87	7×8
WO-108	$\frac{1}{4}\times\frac{5}{16}$	AO-1816	$\frac{1}{2}\times\frac{9}{16}$	MO-98	8×9
WO-1210	$\frac{5}{16}\times\frac{3}{8}$	AO-2018	$\frac{9}{16}\times\frac{5}{8}$	MO-108	8×10
WO-1412	$\frac{3}{8}\times\frac{7}{16}$	AO-2422	$\frac{11}{16}\times\frac{3}{4}$	MO-1110	10×11
				MO-1310	10×13
				MO-1312	12×13
				MO-1713	13×17
				MO-1514	14×15
				MO-1917	17×19

Open Ended Spanners Short Series Sets – in plastic wallets



Whitworth

Ref. No.	1	2	3	4	5
SWO-5W	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$

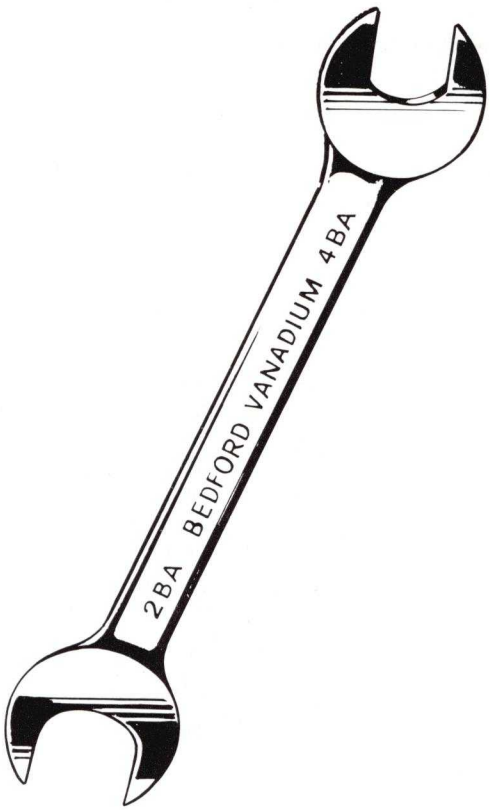
A/F

Ref. No.	1	2	3	4	5
SAO-5W	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$

Metric

Ref. No.	1	2	3	4	5
SMO-5W	6×7	8×9	10×11	12×13	14×15

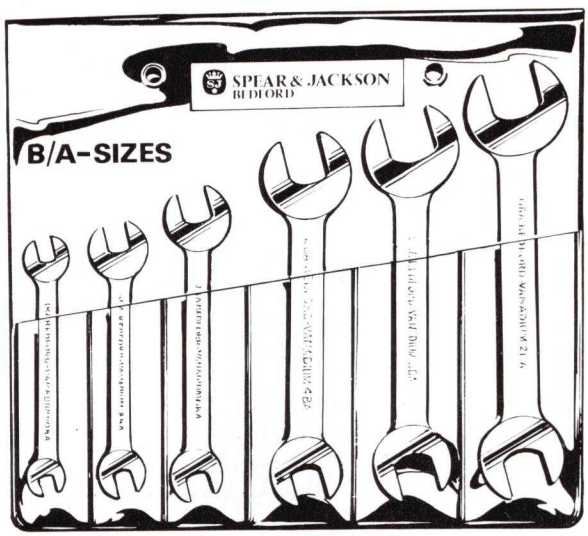
SPEAR & JACKSON Spanners



Open Ended Spanners Miniature Series

Chrome Vanadium. Chrome Plated and Polished.

BA (ins)		A/F (ins)		Metric (mm)	
Ref. No.	AxB (BA)	Ref. No.	AxB (ins)	Ref. No.	AxB (mm)
OB-4WO	$\frac{1}{8}$W×0	OA-44½M	$\frac{1}{8}\times\frac{9}{64}$	OM-324M	3.2×4
OB-02	0×2	OA-56M	$\frac{5}{32}\times\frac{3}{16}$	OM-45M	4×5
OB-13	1×3	OA-68M	$\frac{3}{16}\times\frac{1}{4}$	OM-555M	5×5.5
OB-24	2×4	OA-78M	$\frac{7}{32}\times\frac{1}{4}$	OM-557M	5.5×7
OB-46	4×6	OA-810M	$\frac{1}{4}\times\frac{5}{16}$		
OB-57	5×7	OA-910M	$\frac{9}{32}\times\frac{5}{16}$		
OB-68	6×8	QA-99½M	$\frac{9}{32}\times\frac{19}{64}$		
OB-79	7×9	OA-1011M	$\frac{5}{16}\times\frac{11}{32}$		
OB-810	8×10				



Open Ended Spanners Miniature Series Sets – in plastic wallets

BA

Ref. No.	1	2	3	4	5	6
FBA-5L	0×2	1×3	4×6	5×7	8×10	
FBA-6L	0×2	1×3	2×4	4×6	5×7	8×10

A/F

Ref. No.	1	2	3	4	5	6
FAA-5L	$\frac{1}{8}\times\frac{9}{64}$	$\frac{5}{32}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{7}{32}\times\frac{1}{4}$	$\frac{9}{32}\times\frac{5}{16}$	
FAA-6L	$\frac{1}{8}\times\frac{9}{64}$	$\frac{5}{32}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{7}{32}\times\frac{1}{4}$	$\frac{9}{32}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{11}{32}$

Metric

Ref. No.	1	2	3	4	5	6
FMA-6L	3.2×4	4×5	5×5.5	5.5×7	*7×8	*8×10

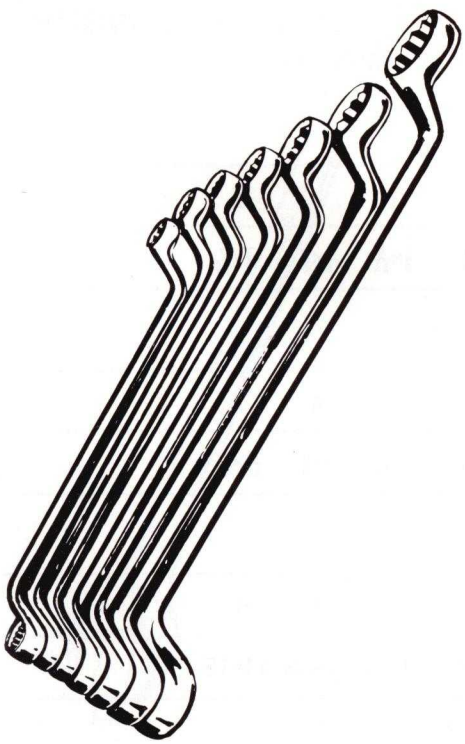
** Short Series Spanners.*

SPEAR & JACKSON Spanners

Ring Spanners 12 Point (Bi-Hex) Standard Length

Chrome Vanadium. Chrome Plated and Polished.

Whitworth (ins)		A/F (ins)		Metric (mm)	
Ref. No.	AxB (ins)	Ref. No.	AxB (ins)	Ref. No.	AxB (mm)
RW-46	$\frac{1}{8}\times\frac{3}{16}$	RA-1012	$\frac{5}{16}\times\frac{3}{8}$	RM-67	6×7
RW-68	$\frac{3}{16}\times\frac{1}{4}$	RA-1214	$\frac{3}{8}\times\frac{7}{16}$	RM-78	7×8
RW-810	$\frac{1}{4}\times\frac{5}{16}$	RA-1416	$\frac{7}{16}\times\frac{1}{2}$	RM-89	8×9
RW-1012	$\frac{5}{16}\times\frac{3}{8}$	RA-1618	$\frac{1}{2}\times\frac{9}{16}$	RM-810	8×10
RW-1214	$\frac{3}{8}\times\frac{7}{16}$	RA-1820	$\frac{9}{16}\times\frac{5}{8}$	RM-1011	10×11
RW-1416	$\frac{7}{16}\times\frac{1}{2}$	RA-2022	$\frac{5}{8}\times\frac{11}{16}$	RM-1013	10×13
RW-1418	$\frac{7}{16}''\times\frac{9}{16}''$	RA-2024	$\frac{5}{8}\times\frac{3}{4}$	RM-1113	11×13
RW-1618	$\frac{1}{2}\times\frac{9}{16}$	RA-2224	$\frac{11}{16}\times\frac{3}{4}$	RM-1213	12×13
RW-1820	$\frac{9}{16}\times\frac{5}{8}$	RA-2428	$\frac{3}{4}\times\frac{7}{8}$	RM-1214	12×14
RW-1822	$\frac{9}{16}\times\frac{11}{16}$	RA-2628	$\frac{13}{16}\times\frac{7}{8}$	RM-1317	13×17
RW-2024	$\frac{5}{8}\times\frac{3}{4}$	RA-3032	$\frac{15}{16}\times1$	RM-1415	14×15
RW-2224	$\frac{11}{16}\times\frac{3}{4}$	RA-3436	$1\frac{1}{16}\times1\frac{1}{8}$	RM-1617	16×17
RW-2428	$\frac{3}{4}\times\frac{7}{8}$	RA-3440	$1\frac{1}{16}\times1\frac{1}{4}$	RM-1719	17×19
RW-2832	$\frac{7}{8}\times1$	RA-3640	$1\frac{1}{8}\times1\frac{1}{4}$	RM-1819	18×19
RW-3236	$1\times1\frac{1}{8}$	RA-4046	$1\frac{1}{4}\times1\frac{7}{16}$	RM-1922	19×22
		RA-4248	$1\frac{5}{16}\times1\frac{1}{2}$	RM-2022	20×22
				RM-2123	21×23
				RM-2224	22×24
				RM-2426	24×26
				RM-2427	24×27
				RM-2528	25×28
				RM-2730	27×30
				RM-3032	30×32
				RM-3036	30×36
				RM-3236	32×36
				RM-3641	36×41
				RM-4146	41×46



Ring Spanners 12 Point (Bi-Hex) Standard Length Sets

A selection of Sets comprising sizes most widely used.
Supplied in Cardboard boxes.

Whitworth

Ref. No.	1	2	3	4	5	6	7	8
RWS-5B	$\frac{3}{16}\times\frac{1}{4}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$			
RWS-6	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$		
RWS-7	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	

A/F

RAS-6	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$		
RAS-7	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$	$\frac{3}{4}\times\frac{7}{8}$	

Metric

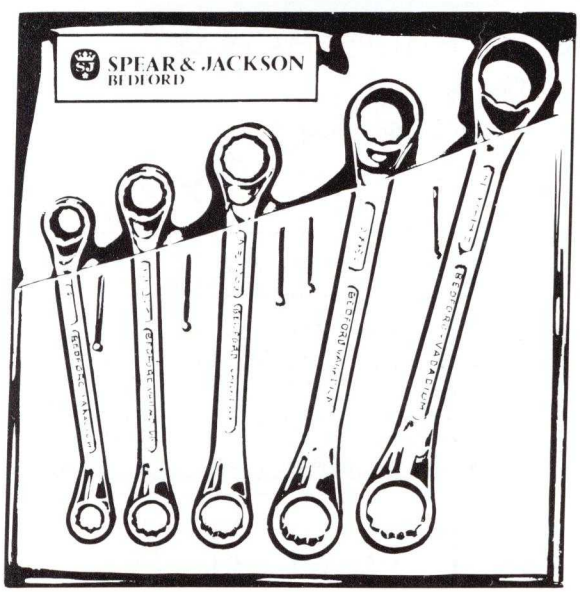
RMS-6	8×9	10×11	12×13	14×15	16×17	18×19		
RMS-7	8×9	10×11	12×13	14×15	16×17	18×19	20×22	
RMS-8	6×7	8×9	10×11	12×13	14×15	16×17	18×19	20×22

SPEAR & JACKSON Spanners

Ring Spanners Short Series

Chrome Vanadium. Chrome Plated and Polished.

Whitworth (ins)		A/F (ins)		Metric (mm)	
Ref. No.	AxB (ins)	Ref. No.	AxB (ins)	Ref. No.	AxB (mm)
WR-64	$\frac{1}{8}\times\frac{3}{16}$	AR-1210	$\frac{5}{16}\times\frac{3}{8}$	MR-76	6×7
WR-86	$\frac{3}{16}\times\frac{1}{4}$	AR-1412	$\frac{3}{8}\times\frac{7}{16}$	MR-98	8×9
WR-108	$\frac{1}{4}\times\frac{5}{16}$	AR-1614	$\frac{7}{16}\times\frac{1}{2}$	MR-1110	10×11
WR-1210	$\frac{5}{16}\times\frac{3}{8}$	AR-1816	$\frac{1}{2}\times\frac{9}{16}$	MR-1312	12×13
WR-1412	$\frac{3}{8}\times\frac{7}{16}$	AR-2018	$\frac{9}{16}\times\frac{5}{8}$	MR-1514	14×15
		AR-2422	$\frac{11}{16}\times\frac{3}{4}$	MR-1716	16×17
				MR-1918	18×19



Short Series Sets—in plastic wallets

Sets of five sizes in useful and attractive tool roll.

Whitworth

Ref. No.	1	2	3	4	5
SWR-5W	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$

A/F

Ref. No.	1	2	3	4	5
SAR-5W	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$

Metric

Ref. No.	1	2	3	4	5
SMR-5W	6×7	8×9	10×11	12×13	14×15

SPEAR & JACKSON Spanners

Ring Spanners Miniature Series

Chrome Vanadium. Chrome Plated and Polished.

BA Sizes

Ref. No.	AxB (BA)
CB-4W0	$\frac{1}{8}$W×0
CB-02	0×2
CB-13	1×3
CB-24	2×4
CB-35	3×5
CB-46	4×6

BA Set

Sets of six sizes in compact tool roll.

Ref. No.	1	2	3	4	5	6
CRBA-6L	$\frac{1}{8}$W×0	0×2	1×3	2×4	3×5	4×6

Combination Spanners Long Series

Chrome Vanadium. Chrome Plated and Polished.
15° angle on open jaw

A/F Sizes Ref. No.	AxB (ins)	Metric Sizes Ref. No.	AxB (mm)
LCA-10	$\frac{5}{16}$	LCM-6	6
LCA-12	$\frac{3}{8}$	LCM-7	7
LCA-14	$\frac{7}{16}$	LCM-8	8
LCA-16	$\frac{1}{2}$	LCM-9	9
LCA-18	$\frac{9}{16}$	LCM-10	10
LCA-20	$\frac{5}{8}$	LCM-11	11
LCA-22	$\frac{11}{16}$	LCM-13	13
LCA-24	$\frac{3}{4}$	LCM-14	14
LCA-26	$\frac{13}{16}$	LCM-15	15
LCA-28	$\frac{7}{8}$	LCM-16	16
LCA-30	$\frac{15}{16}$	LCM-17	17
LCA-32	1	LCM-18	18
LCA-34	$1\frac{1}{16}$	LCM-19	19
LCA-36	$1\frac{1}{8}$	LCM-20	20
LCA-38	$1\frac{3}{16}$	LCM-22	22
LCA-40	$1\frac{1}{4}$	LCM-24	24
LCA-42	$1\frac{5}{16}$	LCM-27	27
		LCM-30	30
		LCM-32	32
		LCM-36	36

SPEAR & JACKSON Spanners

Combination Spanners Long Series Sets

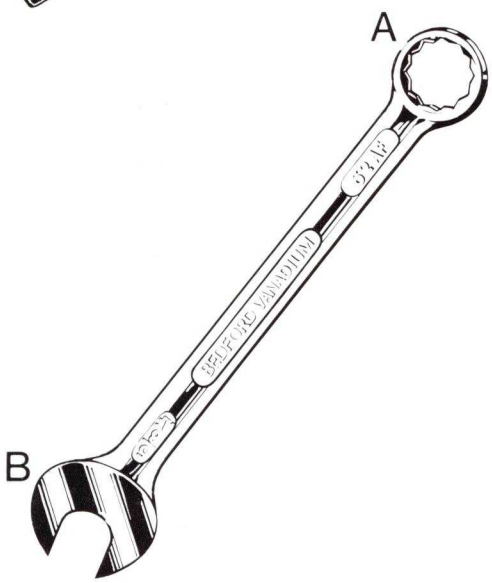
A selection of Sets comprising sizes most widely used.
Supplied in Cardboard boxes.

A/F

Ref. No.	1	2	3	4	5	6	7	8
LCAS-6	3/8	7/16	1/2	9/16	5/8	3/4		
LCAS-7	5/16	3/8	7/16	1/2	9/16	5/8	3/4	
LCAS-8	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1

Metric

Ref. No.	1	2	3	4	5	6	7	8	9	10	11	12
LCMS-12	7	8	10	11	13	17	19	22	24	27	30	32
LCMS-7	7	8	10	11	13	17	19					



Combination Spanners Short Series

Chrome Vanadium. Chrome Plated and Polished
15° angle on open jaw

A/F (ins) Ref. No.	AxB (ins)	Metric (mm) Ref. No.	AxB (mm)
ROA-12	3/8	ROM-7	7
ROA-14	7/16	ROM-8	8
ROA-16	1/2	ROM-10	10
ROA-18	9/16	ROM-11	11
ROA-20	5/8	ROM-13	13
ROA-22	11/16	ROM-17	17
ROA-24	3/4	ROM-19	19

Combination Spanners Short Series Sets

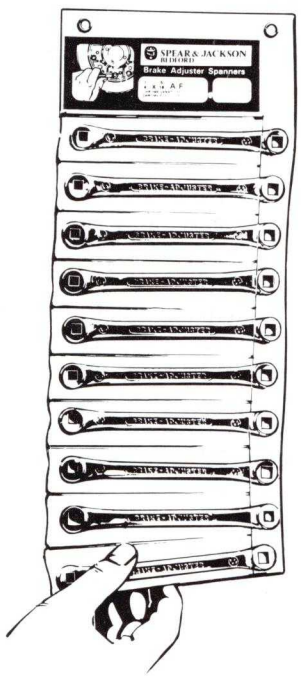
Supplied in cardboard boxes.

A/F Sets

Ref. No.	1	2	3	4	5	6	7
ROAS-6	3/8	7/16	1/2	9/16	5/8	3/4	
ROAS-7	3/8	7/16	1/2	9/16	5/8	11/16	3/4

Metric Sets

Ref. No.	1	2	3	4	5	6	7
ROMS-7	7	8	10	11	13	17	19



Brake Adjuster Spanners

Ref. No. FHB810

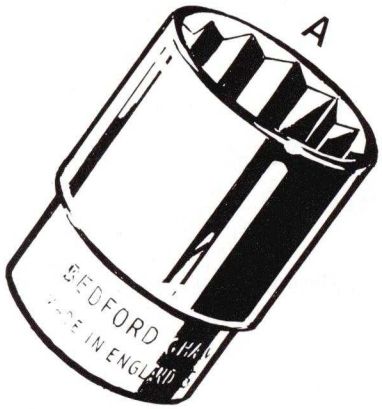
Fixed Head — 15° angle double ended (1/4"×5/16" AF).

Brake Adjuster Pack

Ref. No. FHB1000

Tear off wall hanging dispenser containing 10 spanners.

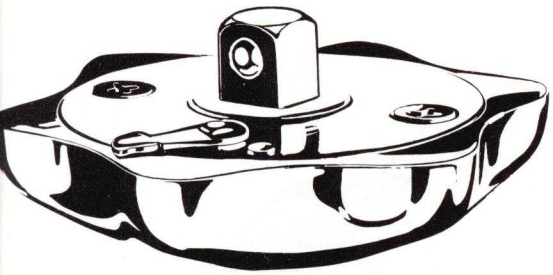
3/8in Square Drive Socket Spanners, Bi-Hex



Chrome Vanadium. Chrome Plated and Polished.

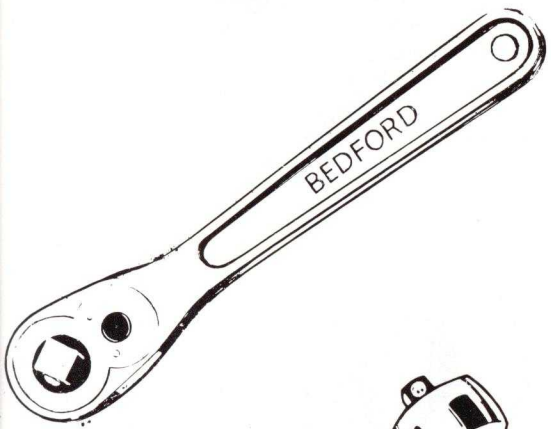
A/F Sizes		Metric Sizes	
Ref. No.	A (ins)	Ref. No.	A (mm)
SHA-8	1/4	SHM-8	8
SHA-10	5/16	SHM-9	9
SHA-11	11/32	SHM-10	10
SHA-12	3/8	SHM-11	11
SHA-14	7/16	SHM-12	12
SHA-16	1/2	SHM-13	13
SHA-18	9/16	SHM-14	14
SHA-19	19/32	SHM-15	15
SHA-20	5/8	SHM-16	16
SHA-22	11/16	SHM-17	17
SHA-24	3/4	SHM-18	18
		SHM-19	19

PGH-6 Palm Grip Reversible Ratchet



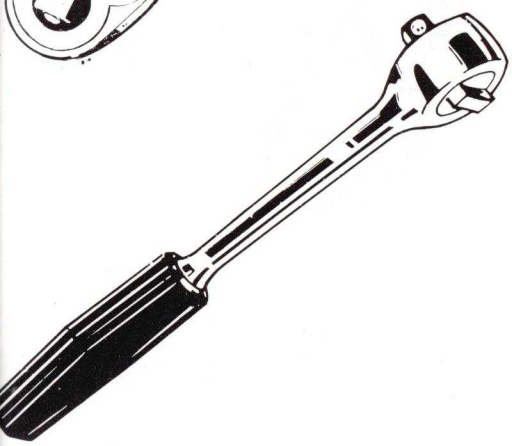
24 Point fine tooth action. Width across head 2 7/8in (73mm). The ideal tool for working in cramped areas, will operate where conventional ratchet levers cannot be used.

RLH-10 Reversible Ratchet

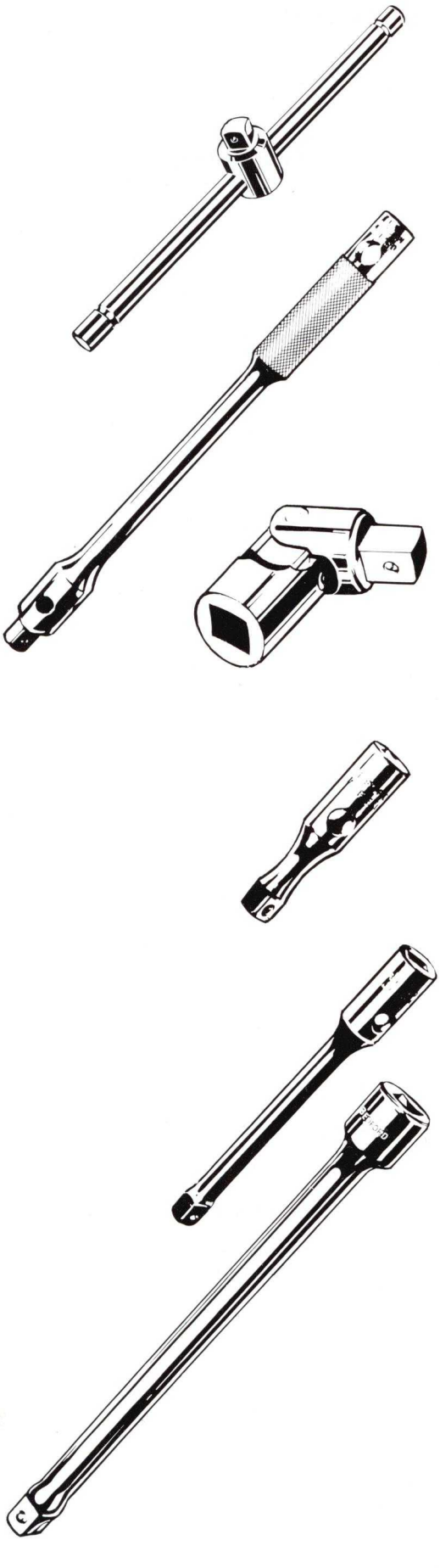


32 Point fine tooth action. Length 7in (178mm). Head thickness 9/16in (14mm).

HU-10 Reversible Handle Ratchet



60 point extra fine tooth action. Length - 8"/200mm. Head thickness - 3/4"/18mm. Plastic moulded handle. Manufactured from chrome-vanadium steel.



STH-20 Sliding T-Bar and Head

Moveable head permits use in any position. Bar: Length 8in (203mm). Dia $\frac{3}{8}$in (10mm). Head: Depth $1\frac{1}{4}$in (32mm). Dia $\frac{11}{16}$in(18mm).

NSH-30 Swivel Handle (Nut Spinner)

Drilled knurled handle. Length 9in (229mm).

UJH-40 Universal Joint

Swing of 90° for tight corners.

SEH-45 Extension

Length 3in (76mm).

MEH-50 Extension

Length 6in (153mm).

LEH-60 Extension

Length 12in (305mm).

SBH-70 Speeder Brace

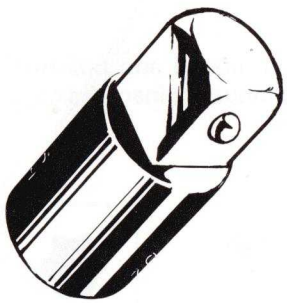
Overall Length 16in (406mm). Shank Length 6in (153mm). Sweep Radius 3½in. (89 mm)

SHW-14P Spark Plug Socket (14mm)

12 Point openings—extra deep for snug fit.

AH-80 Converter (⅜in Plug—½in Socket)

To enable use of ½in square drive accessories with ⅜in square drive sockets.



AH-81 Converter (½in Plug—⅜in Socket)

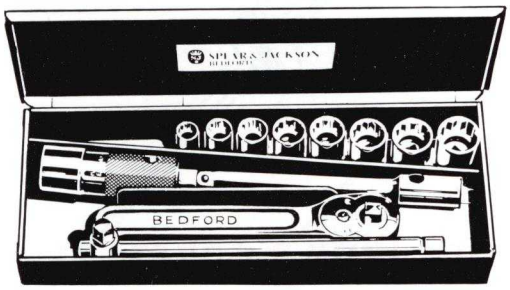
To enable use of ⅜in square drive accessories with ½in square drive sockets.

SPEAR & JACKSON Spanner Sets

3/8"

3/8in Square Drive Socket Spanner Sets, Bi-Hex

Chrome Vanadium. Chrome Plated and Polished. In Steel Boxes.



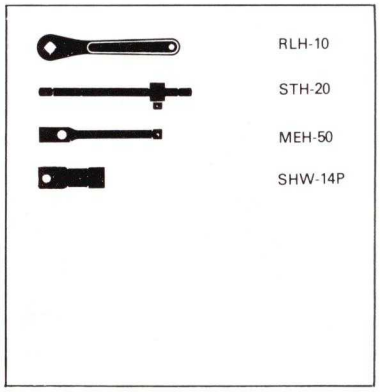
3/8in Square Drive 12 piece sets

A/F (ins)

Ref. No.	
812-0930	3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4in

Metric (mm)

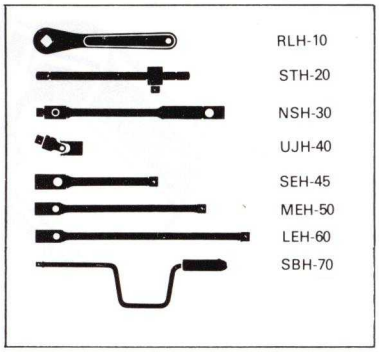
Ref. No.	
822-0093	9, 10, 11, 12, 14, 16, 17, 19mm

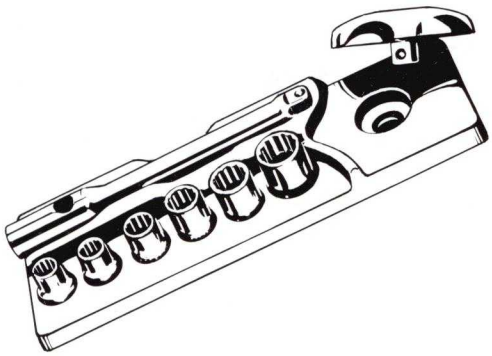


3/8in Square Drive 26 piece set

A/F-Metric

Ref. No. 862-0881	
A/F	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 19/32, 11/16, 3/4in
Metric	9, 10, 11, 12, 14, 16, 17, 18, 19mm





3/8in Square Drive Space finder Socket Sets

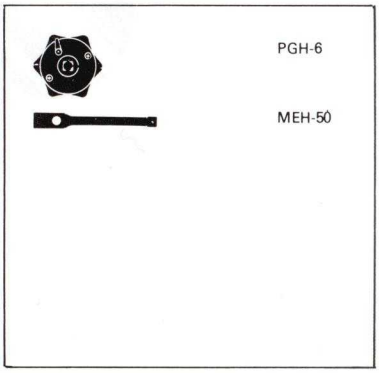
Chrome Vanadium. Chrome plated and polished. Ideal for use where space is restricted and fastenings are inaccessible with normal tools.

A/F (ins)

Ref. No.	
812-062	1/4, 5/16, 11/32, 3/8", 7/16, 1/2in

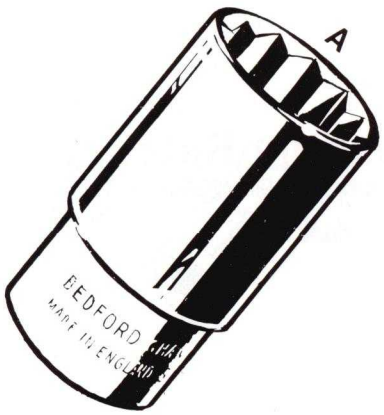
Metric (mm)

Ref. No.	
822-602	9, 10, 11, 12, 13, 14mm



1/2in Square Drive Socket Spanners, Bi-Hex

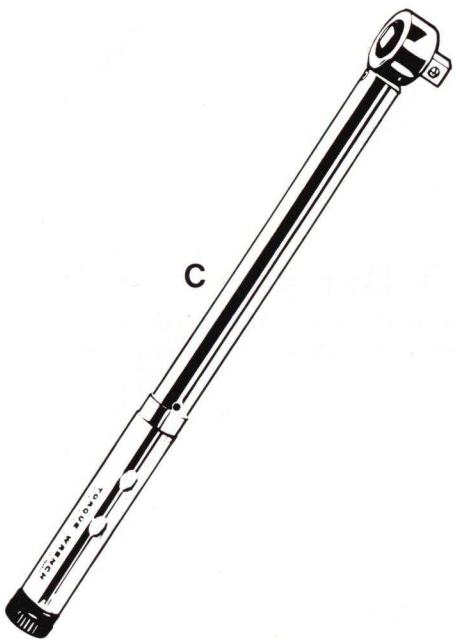
Chrome Vanadium. Chrome Plated and Polished.



Whitworth (ins)		A/F (ins)		Metric (mm)	
Ref. No.	A (ins)	Ref. No.	A (ins)	Ref. No.	A (mm)
SJW-4	1/8	SJA-12	3/8	SJM-8	8
SJW-6	3/16	SJA-14	7/16	SJM-9	9
SJW-8	1/4	SJA-16	1/2	SJM-10	10
SJW-10	5/16	SJA-18	9/16	SJM-11	11
SJW-12	3/8	SJA-19	19/32	SJM-12	12
SJW-14	7/16	SJA-20	5/8	SJM-13	13
SJW-16	1/2	SJA-22	11/16	SJM-14	14
SJW-18	9/16	SJA-24	3/4	SJM-15	15
SJW-20	5/8	SJA-25	25/32	SJM-16	16
SJW-22	11/16	SJA-26	13/16	SJM-17	17
SJW-24	3/4	SJA-28	7/8	SJM-18	18
		SJA-30	15/16	SJM-19	19
		SJA-32	1	SJM-20	20
		SJA-34	1 1/16	SJM-21	21
		SJA-36	1 1/8	SJM-22	22
		SJA-38	1 3/16	SJM-23	23
		SJA-40	1 1/4	SJM-24	24
				SJM-25	25
				SJM-26	26
				SJM-27	27
				SJM-28	28
				SJM-29	29
				SJM-30	30
				SJM-32	32
				SJM-36	36

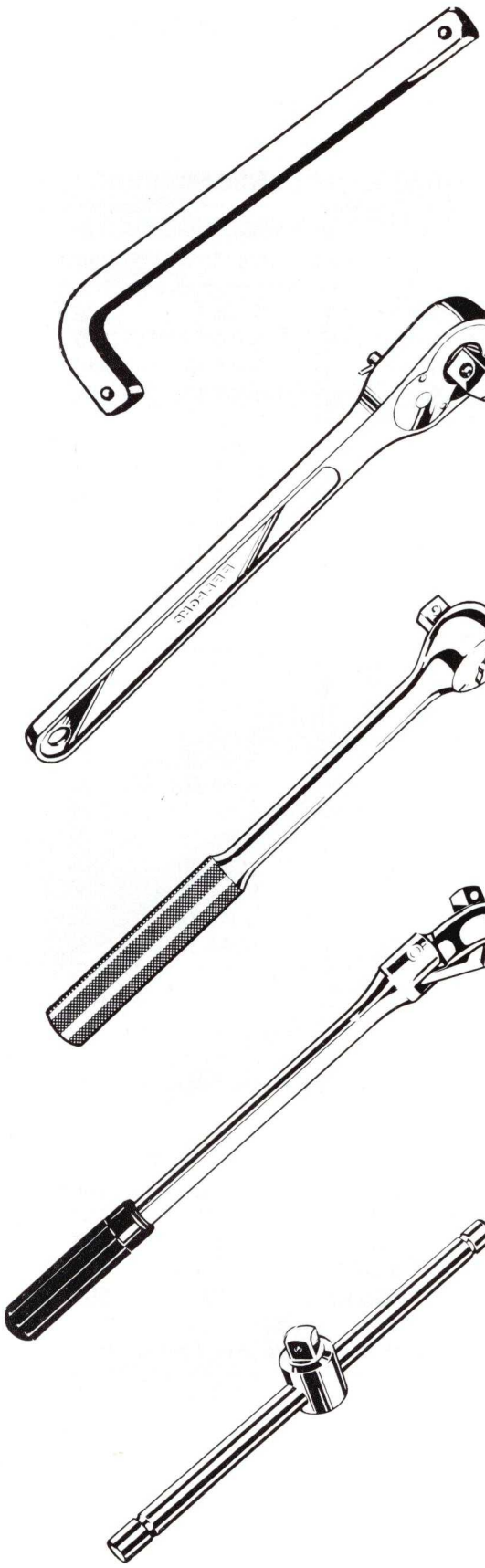
Torque Wrenches

48 tooth Reversible Ratchet with Metric and English Scales Presetting type.



Ref. No.	KgM	lbf ft	C (ins)	C (mm)
**893-1401	80-550	6-40	11	280
893-1402	3-15	20-110	16 1/2	420
*893-1403	5.5-22	50-170	23	584

*18 tooth non-reversible pattern. **This scale marked in Kg/cm.



CD-5 Cranked Driver

½in Square Key. Handy for use with spark plug socket.

RL-10/A Reversible Ratchet

32 Point fine tooth action. Length 10in (254mm). Head thickness ¾in (19mm).

HU-15 'Husky' Reversible Ratchet

45 Point Extra fine tooth action with 12 tooth pawl. Length 10in (254mm). Head thickness ¾in (19mm).

FL-25 'New Britain' Reversible Flexible Head Ratchet

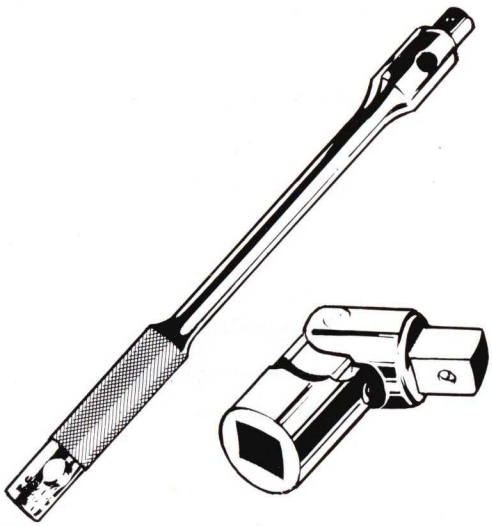
45 Point Extra fine tooth action with 12 tooth pawl. Head rotates up to 180°. Head thickness ¾in (19mm).

ST-20 Sliding T-Bar and Head

Movable Head permits use in any position. Bar: Length 9in (229mm). Dia ½in (13mm). Head: Depth 1⅝in (41mm). Dia 1in (25mm).

SPEAR & JACKSON Spanners

1/2"



NS-30 Swivel Handle (Nut Spinner)

Drilled, knurled Handle. Length 15in (381mm).

UJ-40 Universal Joint

Swing of 90° for tight corners.

ME-50 Extension

Length 5in (127mm).

LE-60 Extension

Length 10in (254mm).

SB-70A Speeder Brace

Overall Length 16in (406mm). Shank Length 4in (102mm). Sweep Radius 4in (102mm).

SJW-10P Spark Plug Socket 10mm

6 Point openings. Extra Deep for snug fit.

SJW-14P Spark Plug Socket 14mm

12 Point openings. Extra Deep for snug fit.

½in Square Drive Socket Spanner Sets, Bi-Hex

Chrome Vanadium. Chrome Plated and Polished in Steel Boxes.

½in Square Drive 10 piece set

Whitworth (ins)

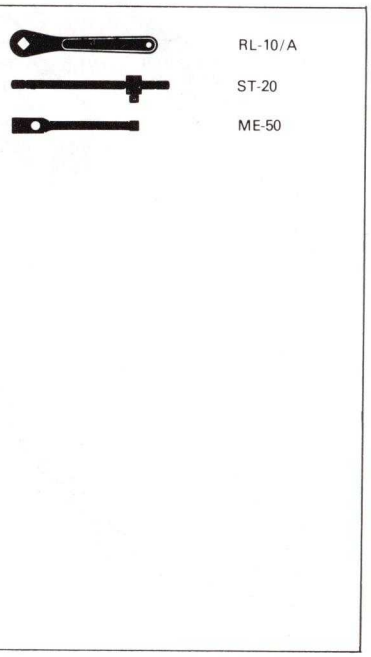
Ref. No.	
803-0650	$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$in

A/F (ins) 11 Piece set.

Ref. No.	
813-0670	$\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{7}{8}$, $\frac{15}{16}$in

Metric (mm)

Ref. No.	
823-0063	11, 14, 17, 19, 22, 24, 27mm



½in Square Drive 14 piece set

Whitworth (ins)

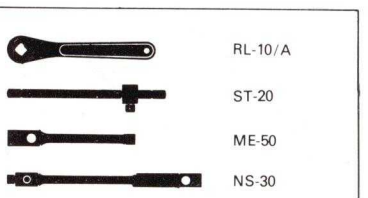
Ref. No.	
803-0620	$\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$in

A/F (ins)

Ref. No.	
813-0630	$\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$, $\frac{11}{16}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{8}$, $1\frac{1}{4}$in

Metric (mm)

Ref. No.	
823-0104	11, 12, 14, 15, 17, 19, 20, 22, 24, 27mm



SPEAR & JACKSON Spanner Sets

1/2"

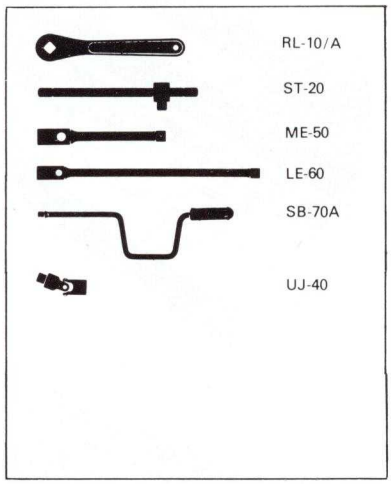
1/2in Square Drive 22 piece sets

A/F (ins)

Ref. No.	
813-0401	7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4in

Metric (mm)

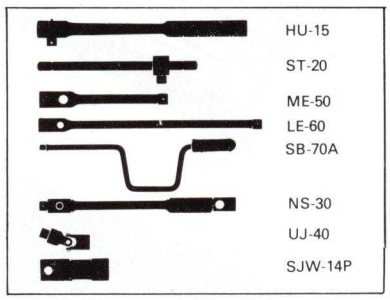
Ref. No.	
823-0140	10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 24, 27, 30, 32mm

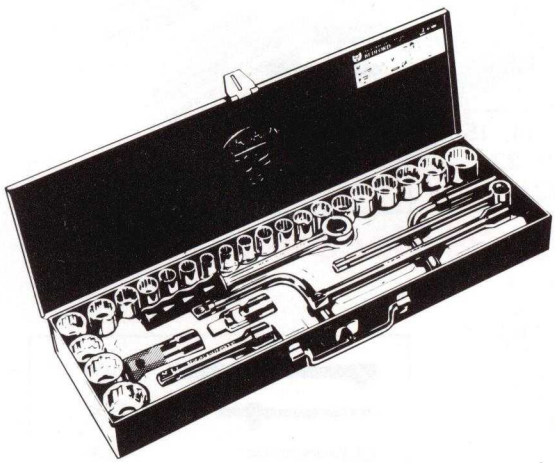


1/2in Square Drive 29 piece set

Metric (mm)

Ref. No.	
823-0207	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm





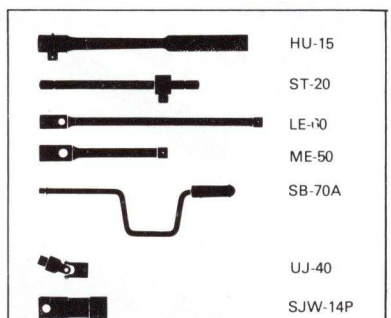
1/2in Square Drive 29 piece sets

Whitworth-A/F

Ref. No. 863-0641	
Whit.	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4in
A/F	7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/8in

A/F-Metric

Ref. No. 863-0642	
A/F	7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/8in
Metric	11, 13, 14, 17, 19, 22, 24, 27, 30, 32mm



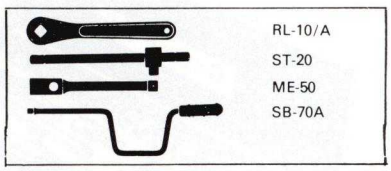
SPEAR & JACKSON Spanner Sets

1/2"

1/2in Square Drive 16 piece set

Whitworth, A/F.
Ref.
No. 863-0350

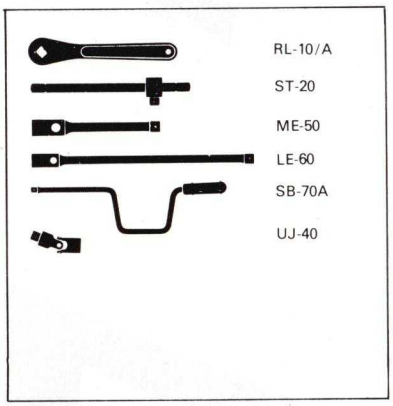
Whit.	3/16, 1/4, 5/16, 3/8, 7/16in
A/F	7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8in



1/2in Square Drive 22 piece sets

Whitworth, A/F.
Ref.
No. 863-0400

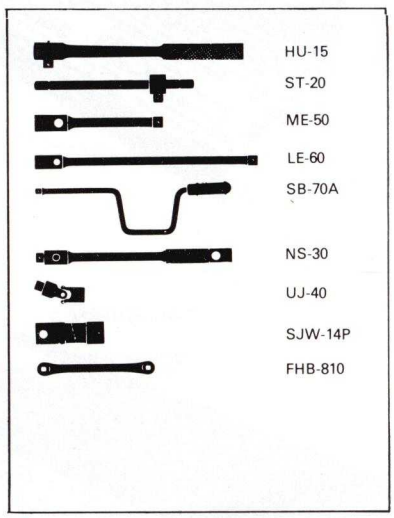
Whit.	3/16, 1/4, 5/16, 3/8, 7/16, 1/2in
A/F	7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 23/32, 13/16, 7/8in
Metric–A/F Ref. No. 863-0404	
Metric	10, 11, 13, 15, 17, 19, 22, 24mm
A/F	7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8in



1/2in Square Drive 37 piece sets

Whitworth, A/F.
Ref.
No. 863-0690

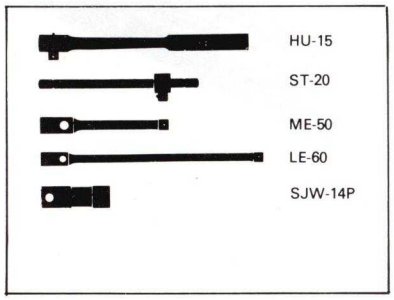
Whit.	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4in
A/F	3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4in
A/F–Metric Ref. No. 863-0691	
A/F	1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 15/16, 1, 1 1/8in
Metric	10, 11, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 27, 30, 32mm



1/2in Square Drive 39 piece set

Whitworth, A/F, and Metric
Ref.
No. 863-0710

Whit.	3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4in
A/F	7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1, 1 1/8, 1 1/4in
Metric	10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32mm



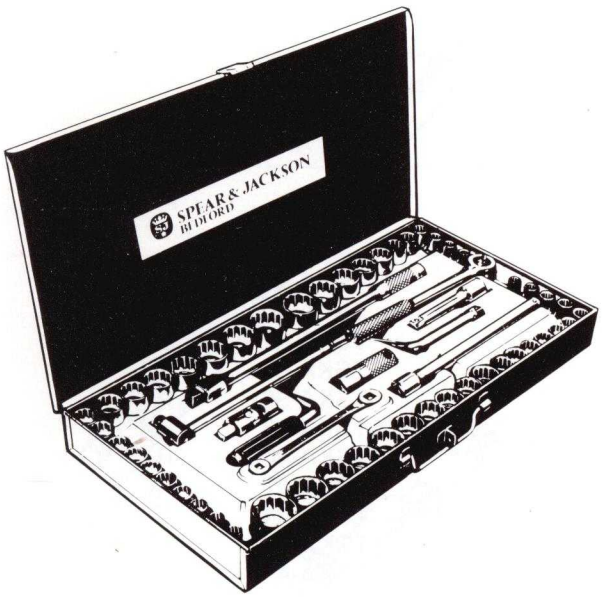
SPEAR & JACKSON Spanner Sets

1/2"

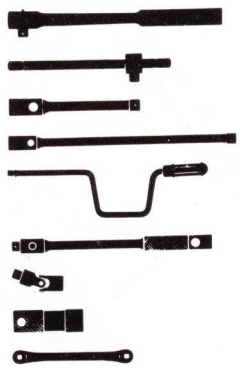
1/2in Square Drive 58 piece set

Whitworth, A/F, and Metric

Ref.
No. 863-0790



Whit.	1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4in
A/F	3/8, 7/16, 1/2, 9/16, 19/32, 5/8, 11/16, 3/4, 25/32, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4in
Metric	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32mm



27 piece Motorists' Service Kits

A/F

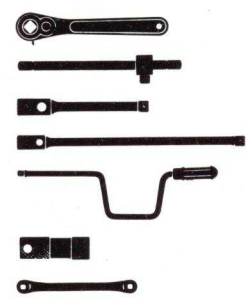
Ref.
No. 813-202

	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 7/8, 15/16, 1in
	*3/8×7/16, 7/16×1/2, 1/2×9/16, 9/16×5/8, 11/16×3/4in
	*3/8×7/16, 7/16×1/2, 1/2×9/16, 9/16×5/8 11/16×3/4in

Metric

Ref.
No. 823-302

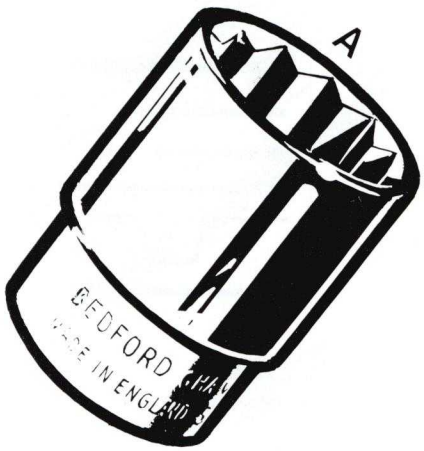
	10, 11, 12, 13, 16, 17, 19, 22, 24, 27mm
	*6×7, 8×9, 10×11, 12×13, 14×15mm
	*6×7, 8×9, 10×11, 12×13, 14×15 mm



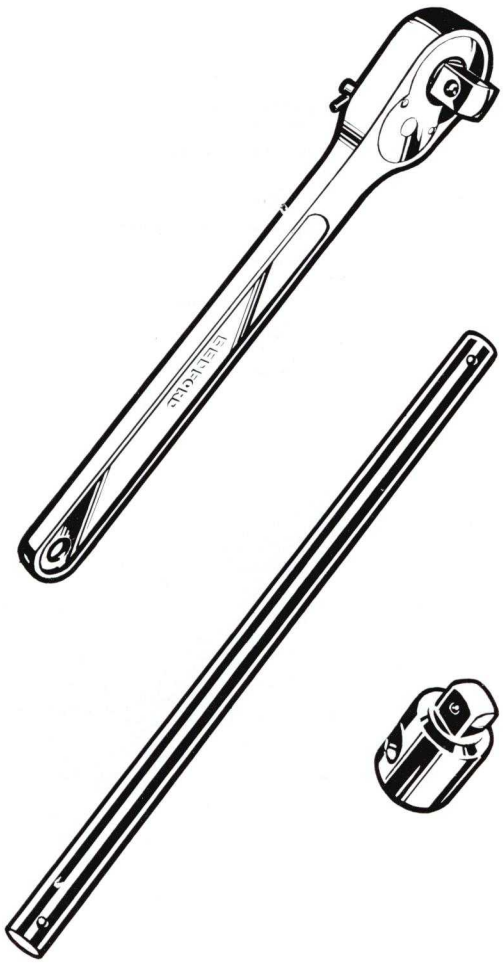
*Short series.

3/4in Square Drive Socket Spanners, Bi-Hex

Chrome Vanadium. Chrome Plated and Polished.



Whitworth (ins)		A/F (ins)	
Ref. No.	A (ins)	Ref. No.	A (ins)
TSKW-16	1/2"	TSKA-28	7/8"
TSKW-18	9/16"	TSKA-30	15/16"
TSKW-20	5/8"	TSKA-32	1"
TSKW-22	11/16"	TSKA-34	1 1/16"
TSKW-24	3/4"	TSKA-36	1 1/8"
TSKW-26	13/16"	TSKA-38	1 3/16"
TSKW-28	7/8"	TSKA-40	1 1/4"
TSKW-32	1"	TSKA-42	1 5/16"
TSKW-36	1 1/8"	TSKA-44	1 3/8"
		TSKA-46	1 7/16"
		TSKA-48	1 1/2"
		TSKA-52	1 5/8"
		TSKA-54	1 11/16"
		TSKA-56	1 3/4"
		TSKA-58	1 13/16"
		TSKA-60	1 7/8"
		TSKA-64	2"



TRLK-12 Reversible Ratchet

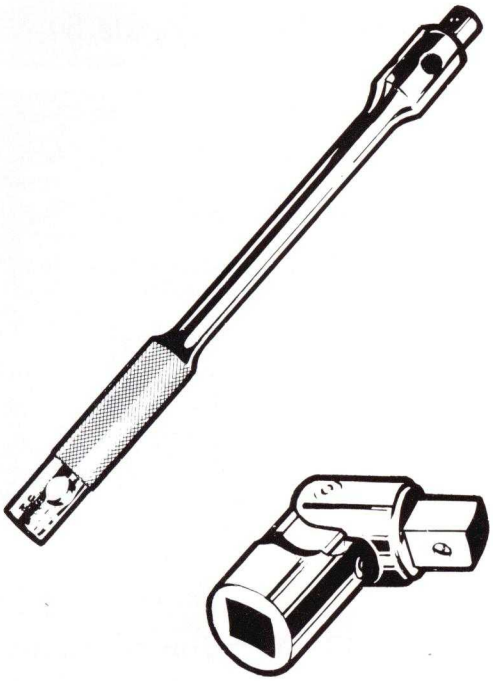
Length 15" (381mm). Head Thickness 7/8" (22mm).

TRBK-20 Tommy Bar. Fully heat-treated, for use with T-bar head

Length 16 3/4" (426mm)

TSTK-90 T-Bar Head

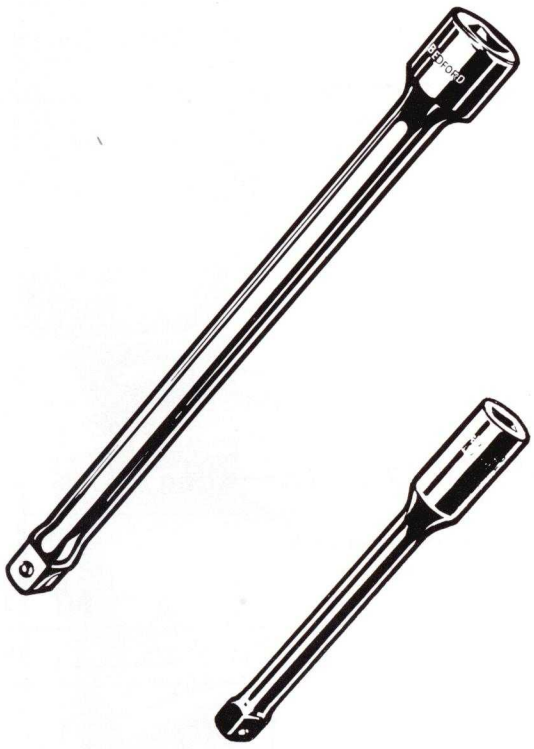
Head diameter 1 1/2" (38mm). Head thickness 1 1/2" (38mm)



TNSK-30 Swivel Handle (Nut Spinner)

Length 19 11/16" (500mm)

TUJK-40 Universal Joint (Heavy Pattern)



TLEK-100 Extension Bar

15 3/4" (400mm)

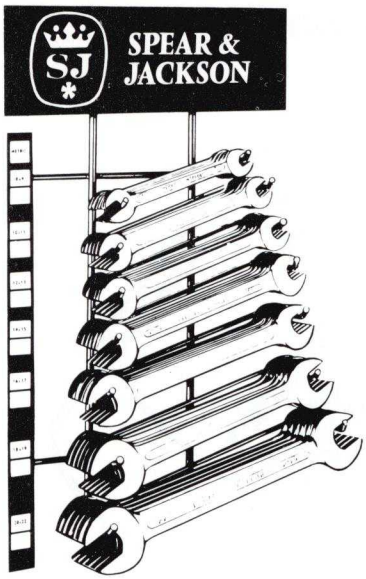
TMEK-50 Extension Bar

7 7/8" (200mm)

AK-80 Converter

1/2" socket—3/4" plug. To enable use of 1/2" square drive accessories with 3/4" drive sockets

SPEAR & JACKSON Spanner Wall Racks



Open-Ended Spanners — Standard Length

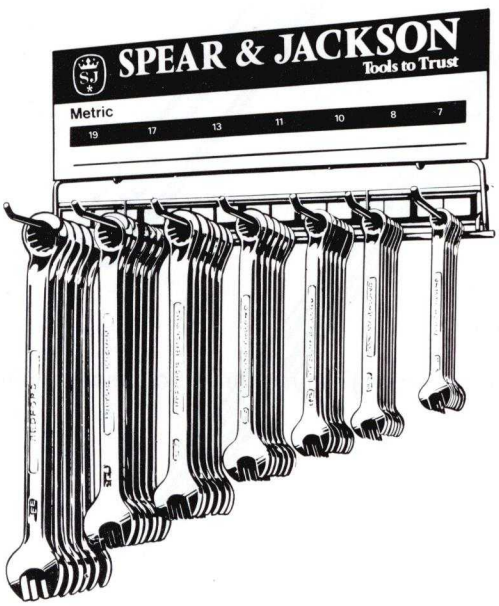
Contents 42 Spanners—6 each size per rack

900-0 **Whitworth** (ins)	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$
900-1 **A/F** (ins)	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$	$\frac{3}{4}\times\frac{7}{8}$
900-2 **Metric** (mm)	8×9	10×11	12×13	14×15	16×17	18×19	20×22

Ring Spanners Bi-Hex — Standard Length

Contents 42 Spanners—6 each size per rack

901-0 **Whitworth** (ins)	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$
901-1 **A/F** (ins)	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{5}{8}\times\frac{3}{4}$	$\frac{3}{4}\times\frac{7}{8}$
901-2 **Metric** (mm)	8×9	10×11	12×13	14×15	16×17	18×19	20×22



Combination Spanners — Long Series

Contents 42 Spanners—6 each size per rack

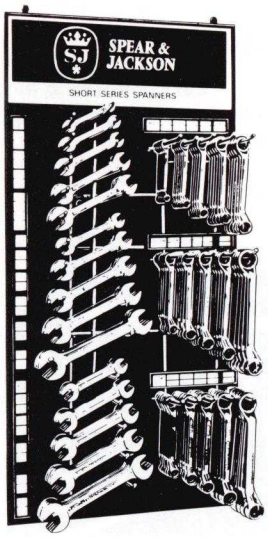
903-1 **A/F** (ins)	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{3}{4}$
903-2 **Metric** (mm)	7	8	10	11	13	17	19

Combination Spanners — Short Series

Contents 42 Spanners—6 each size per rack

904-1 **A/F** (ins)	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$
904-2**Metric** (mm)	7	8	10	11	13	17	19

SPEAR & JACKSON Merchandisers



950-1 Short series spanners

Size: 30×15in (762×381mm) — 180 Spanners.

A most popular board to meet the increased demand for short series Open-ended and Ring Spanners. Unit for wall mounting, supplied free of charge.

Open-ended Spanners

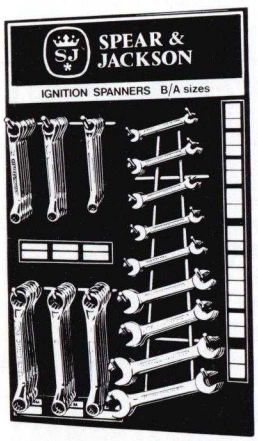
Contents — 6 each size

Whitworth (ins)	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$
A/F (ins)	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$
Metric (mm)	6×7	8×9	10×11	12×13	14×15

Ring Spanners

Contents — 6 each size

Whitworth (ins)	$\frac{1}{8}\times\frac{3}{16}$	$\frac{3}{16}\times\frac{1}{4}$	$\frac{1}{4}\times\frac{5}{16}$	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$
A/F (ins)	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$
Metric (mm)	6×7	8×9	10×11	12×13	14×15



Miniature Spanners — B.A. Sizes

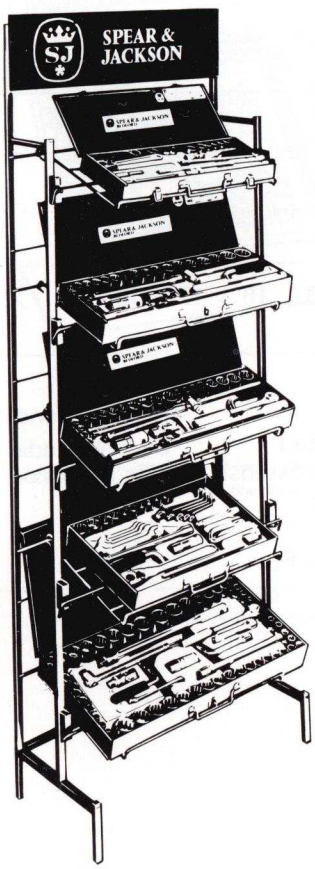
970-2 Open-ended

6 each	$\frac{1}{8}$W×0	0×2	1×3	2×4	4×6	5×7	6×8	7×9	8×10

Ring Bi-Hex

6 each	$\frac{1}{8}$W×0	0×2	1×3	2×4	3×5	4×6

Size 13×8in (330×203mm). Wall mounting.

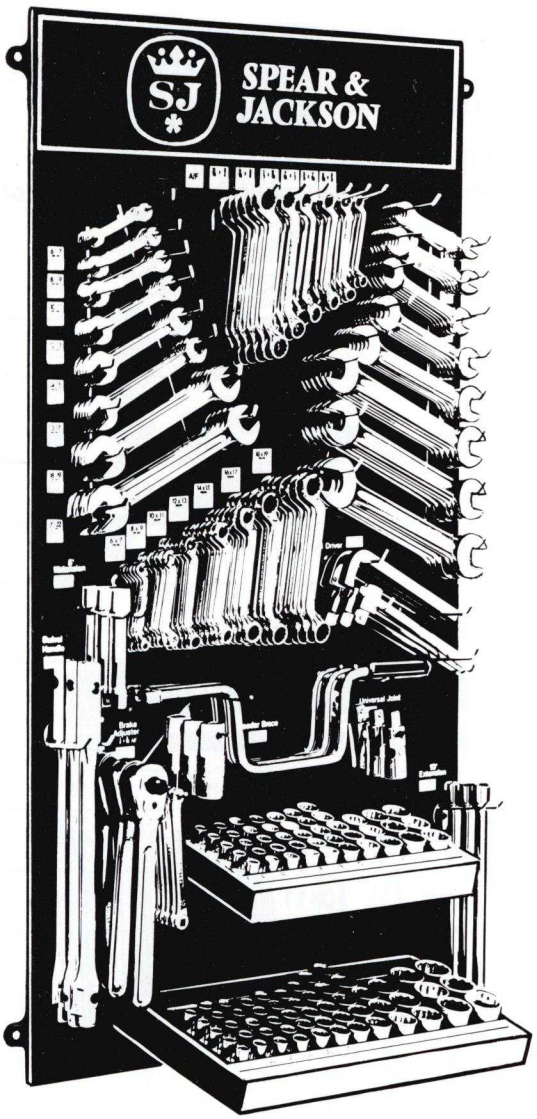


Socket Set Merchandiser

A completely new selling aid, this unit makes an eye catching display. The tubular Steel frame, in a modern silver grey finish, will carry five LARGE Bedford Socket Sets — or more if smaller sets are ordered. It is suitable for all sets in the Bedford range.

We supply the unit free of charge on loan with every order for £150 nett of Bedford Socket Sets. It takes five minutes to assemble, a few minutes more to position the attractive orange and green Bedford Sets — all you have to do is allocate just over two square feet of selling space and sit back and watch your Sockets sell as they have never sold before.

The Socket Set Merchandiser measures 24½″ wide × 13″ deep × 67″ high. (620×330×1700mm).



945 Little Ben

Spanner/Socket Accessory Merchandiser Wall Mounted
45 x 24in (115 x 60cm)

Open Ended Spanners

Contents 6 each

A/F (ins)						
Short Series	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$	
Standard Length	$\frac{3}{4}\times\frac{7}{8}$	$\frac{13}{16}\times\frac{7}{8}$	$\frac{15}{16}\times1$			
Metric (mm)						
Short Series	6×7	8×9	10×11	12×13	14×15	13×17
Standard Length	18×19	20×22				

Ring Spanners

Contents 6 each

A/F (ins)							
Short Series	$\frac{5}{16}\times\frac{3}{8}$	$\frac{3}{8}\times\frac{7}{16}$	$\frac{7}{16}\times\frac{1}{2}$	$\frac{1}{2}\times\frac{9}{16}$	$\frac{9}{16}\times\frac{5}{8}$	$\frac{11}{16}\times\frac{3}{4}$	
Metric (mm)							
Short Series	6×7	8×9	10×11	12×13	14×15	16×17	18×19

Sockets and Accessories

$\frac{1}{2}$in Square Drive

Contents—Sockets

A/F (ins)	5 each	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$		
	4 each	$\frac{7}{8}$	$\frac{15}{16}$	1						
Metric (mm)	5 each	10	11	12	13	16	17	19	22	24
	4 each	27	30	32						

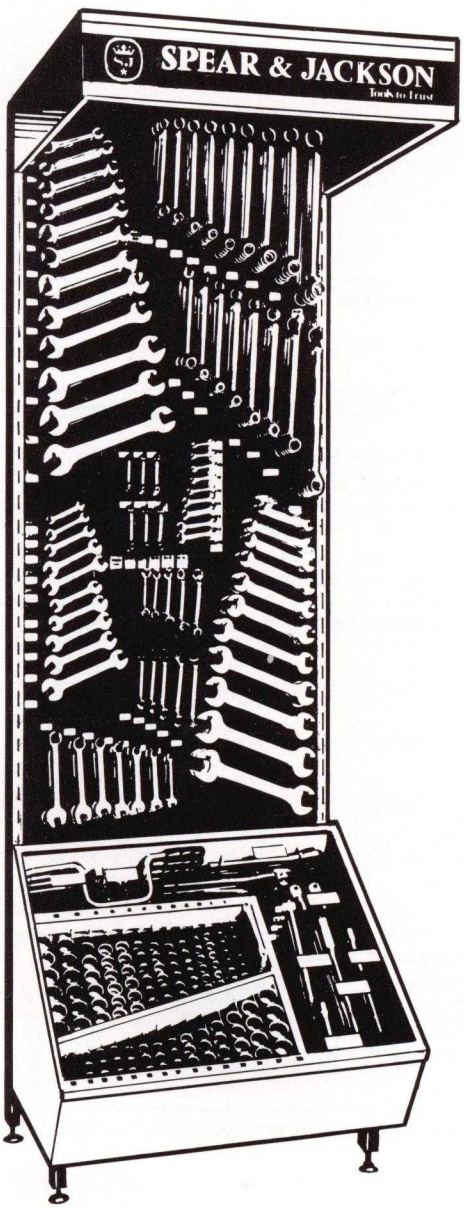
Accessories

3 each	Cranked Driver	Ratchet Handle
	Sliding T-Bar and Head	Swivel Handle
	Universal Joint 5in Extension	10in Extension
	Plug Socket (14mm)	
4 each	16in Speeder Brace	
12 each	Brake Adjuster $\frac{1}{4}\times\frac{5}{16}$A/F	

SPEAR & JACKSON Merchandisers

708 Popular Spanners

Sockets & Accessories
displayed on 5 square feet of floor space



CONTENTS

OPEN-ENDED SPANNERS – STANDARD LENGTH – 5 each

A/F (ins)	Metric (mm)
3/16 × 1/4	8 × 9
5/16 × 3/8	10 × 11
3/8 × 7/16	12 × 13
7/16 × 1/2	14 × 15
1/2 × 9/16	16 × 17
9/16 × 5/8	17 × 19
5/8 × 11/16	18 × 19
5/8 × 3/4	20 × 22
3/4 × 7/8	21 × 23
15/16 × 1	22 × 24
1.1/16 × 1.1/8	24 × 27
	27 × 30

60° RING SPANNERS – STANDARD LENGTH – 5 each

A/F (ins)	Metric (mm)
5/16 × 3/8	8 × 9
3/8 × 7/16	10 × 11
7/16 × 1/2	12 × 13
1/2 × 9/16	14 × 15
9/16 × 5/8	16 × 17
5/8 × 3/4	18 × 19
3/4 × 7/8	20 × 22
15/16 × 1	21 × 23
	24 × 27

OPEN ENDED SPANNERS – SHORT SERIES – 5 each

A/F (ins)	Metric (mm)
3/8 × 7/16	6 × 7
7/16 × 1/2	8 × 9
1/2 × 9/16	10 × 11
9/16 × 5/8	12 × 13
11/16 × 3/4	14 × 15

60° RING SPANNERS – SHORT SERIES – 5 each

A/F (ins)	Metric (mm)
3/8 × 7/16	6 × 7
7/16 × 1/2	8 × 9
1/2 × 9/16	10 × 11
9/16 × 5/8	12 × 13
11/16 × 3/4	14 × 15

COMBINATION SPANNERS – SHORT SERIES – 5 each

A/F (ins)
3/8
7/16
1/2
9/16
5/8
11/16
3/4

OPEN ENDED SPANNERS – MINIATURE SERIES – 5 each

BA
1/8W × 0
0 × 2
1 × 3
2 × 4
4 × 6
5 × 7
6 × 8
7 × 9
8 × 10

SOCKETS 1/2" Square Drive – A/F Sizes – 5 each

3/8	9/16	3/4	15/16	1.1/4
7/16	5/8	7/8	1	
1/2	11/16	13/16	1.1/8	

60° RING SPANNERS – MINIATURE SERIES – 5 each

B/A
1/8W × 0
0 × 2
1 × 3
2 × 4
3 × 5
4 × 6

SOCKETS – 1/2" Square Drive – Metric Sizes – 5 each

10	13	16	19	24
11	14	17	20	27
12	15	18	22	30

SOCKET ACCESSORIES – 1/2" Square Drive – 4 each

Plug Socket (14mm)	Speeder Brace (16 in.)
5 in. Extension	Universal Joint
10 in. Extension	Sliding T-Bar & Head
Swivel Handle	Ratchet Handle

BRAKE ADJUSTER SPANNERS – 10 each

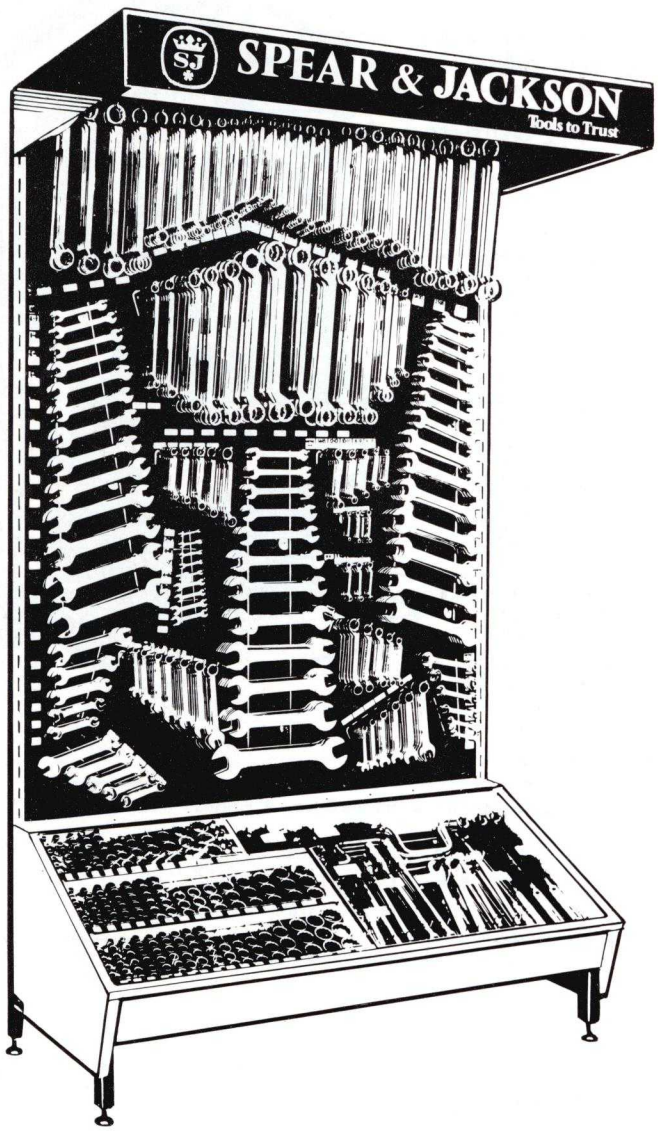
SPEAR & JACKSON Merchandisers

CONTENTS

Spanner Centre

Whitworth, A/F & Metric Sizes

This all-new unit carries 959 top quality Bedford products and makes a compelling Point-of-sale display.



60° RING SPANNERS – STANDARD LENGTH

Whitworth (ins.)	A/F (ins.)	Metric (mm)
1/8 x 3/16 -5	5/16 x 3/8 - 5	8 x 9- 5
3/16 x 1/4 -5	3/8 x 7/16 - 5	10 x 11- 5
1/4 x 5/16-5	7/16 x 1/2 - 5	12 x 13- 5
5/16 x 3/8 -5	1/2 x 9/16 - 5	13 x 17- 5
3/8 x 7/16-5	9/16 x 5/8 - 5	14 x 15- 5
7/16 x 1/2 -5	5/8 x 3/4 - 5	16 x 17- 5
1/2 x 9/16-5	11/16 x 3/4 - 5	17 x 19- 5
9/16 x 5/8 -3	3/4 x 7/8 - 5	18 x 19- 5
9/16 x11/16 -3	13/16 x 7/8 - 5	20 x 22- 5
5/8 x 3/4 -3	15/16 x 1 - 5	21 x 23- 3
11/16 x 3/4 -3	1.1/16 x 1.1/8- 3	22 x 24- 3
3/4 x 7/8 -3	1.1/8 x 1.1/4- 3	24 x 27- 3
		27 x 30- 3
		30 x 32- 3

60° RING SPANNERS – SHORT SERIES

Whitworth (ins.)	A/F (ins.)	Metric (mm)
1/8 x 3/16 -5	3/8 x 7/16 - 5	6 x 7 - 5
3/16 x 1/4 -5	7/16 x 1/2 - 5	8 x 9 - 5
1/4 x 5/16 -5	1/2 x 9/16 - 5	10 x 11 - 5
5/16 x 3/8 -5	9/16 x 5/8 - 5	12 x 13 - 5
3/8 x 7/16 -5	11/16 x 3/4 - 5	14 x 15 - 5

RING SPANNERS – MINIATURE SERIES - 10 each

B/A					
1/8W	x 0	1	x 3	3	x 5
0	x 2	2	x 4	4	x 6

SOCKET ACCESSORIES – 1/2" SQUARE DRIVE

5 each

Ratchet Handle, Sliding T-Bar and Head

Swivel Handle, Universal Joint,5 in.Extension,

10 in. Extension, Speeder Brace (16 ins.)

Plug Socket 14 mm, Torque Wrench (20–110 lbf ft),(4 Only)

Converter (3/8 in. Plug 1/2 in. Socket).

Brake Adjuster Spanners 1/4 x 5/16 A/F – (10 Only)

OPEN ENDED SPANNERS – STANDARD LENGTH

Whitworth (ins.)	A/F (ins.)	Metric (mm)
1/8 x 3/16-5	3/16 x 1/4 - 5	6 x 7 - 5
3/16 x 1/4 -5	5/16 x 3/8 - 5	8 x 9 - 5
1/4 x 5/16-5	3/8 x 7/16 - 5	10 x 11- 5
5/16 x 3/8 -5	7/16 x 1/2 - 5	12 x 13- 5
3/8 x 7/16-5	1/2 x 9/16 - 5	14 x 15- 5
7/16 x 1/2 -5	9/16 x 5/8 - 5	16 x 17- 5
1/2 x 9/16-5	5/8 x 11/16- 5	18 x 19- 5
9/16 x 5/8 -5	5/8 x 3/4 - 5	19 x 22- 5
5/8 x 3/4 -5	11/16 x 3/4 - 5	20 x 22- 5
11/16 x 3/4 -5	3/4 x 7/8 - 5	21 x 23- 5
3/4 x 7/8 -3	13/16 x 7/8 - 5	22 x 24- 5
	15/16 x 1 - 5	24 x 27- 5
	1.1/16 x 1.1/8 - 5	27 x 30- 5
		30 x 32- 5

OPEN ENDED SPANNERS – SHORT SERIES

Whitworth (ins.)	A/F (ins.)	Metric
1/8 x 3/16 -5	3/8 x 7/16 - 5	6 x 7 - 5
3/16 x 1/4 -5	7/16 x 1/2 - 5	8 x 9 - 5
1/4 x 5/16 -5	1/2 x 9/16 - 5	10 x 11 - 5
5/16 x 3/8 -5	9/16 x 5/8 - 5	12 x 13 - 5
3/8 x 7/16 -5	11/16 x 3/4 - 5	13 x 17 - 5
		14 x 15 - 5

OPEN ENDED SPANNERS – MINIATURE SERIES - 10 each

B/A					
1/8W	x 0	2	x 4	6	x 8
0	x 2	4	x 6	7	x 9
1	x 3	5	x 7	8	x 10

COMBINATION SPANNERS – SHORT SERIES – 5 each

A/F (ins.)	Metric (mm)
3/8	7
7/16	8
1/2	10
9/16	11
5/8	13
11/16	17
3/4	19

SOCKETS – 1/2" SQUARE DRIVE

Whitworth (ins)	A/F (ins.)		Metric (mm)	
1/8 - 5	3/8 - 5	1.1/16 - 3	10 - 5	20 - 3
3/16 - 5	7/16 - 5	1.1/8 - 3	11 - 5	22 - 3
1/4 - 5	1/2 - 5	1.3/16 - 3	12 - 5	24 - 3
5/16 - 5	9/16 - 5	1.1/4 - 3	13 - 5	27 - 3
3/8 - 5	5/8 - 5		14 - 5	30 - 3
7/16 - 3	11/16 - 5		15 - 5	32 - 3
1/2 - 3	3/4 - 5		16 - 5	36 - 3
9/16 - 3	13/16 - 3		17 - 5	
5/8 - 3	7/8 - 3		18 - 5	
11/16 - 3	15/16 - 3		19 - 3	
3/4 - 3	1 - 3			

Files

Section 2
Engineering Tools

Spearfiles represent proven craftsmanship, supported by modern technology and are aimed to provide quality, consistency, reliability and off the shelf availability.
They are manufactured from the finest Grade Steel and are specially finished by a unique sand blast method, designed to improve their cutting efficiency and lengthen their effective life.

owels Spear & Jackson Hammers Bedford Chisels & Punches Tyzack
es Bedford Spanners & Sockets Spear & Jackson Saws WHS Trowels
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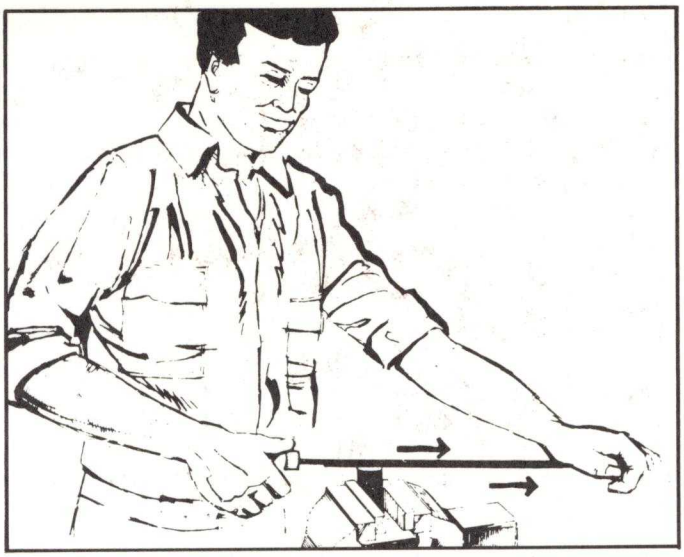
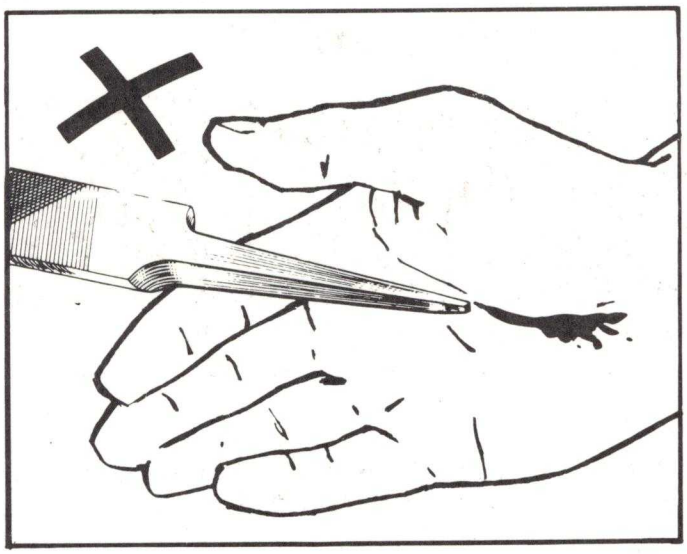
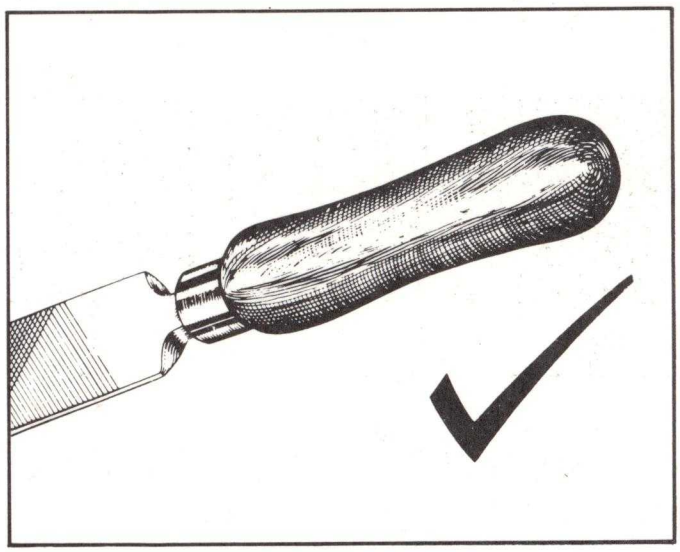
Files
Technical Information



USE YOUR FILE CORRECTLY

- *HOLD FIRM*
- *CUT ON FORWARD STROKE ONLY*
- *USE FULL LENGTH OF FILE ON EACH STROKE*





SOME USEFUL SAFETY HINTS AND TIPS

DO

(1) **DO**: KEEP YOUR FILES CLEAN—never allow the teeth to become choked with filings, grease or dirt.

(2) **DO**: Use chalk as a lubricant when filing. Rubbed into the teeth, it gives a pleasant 'sweetness of cut'.

(3) **DO**: Hold the file firmly and avoid 'chattering'. Vibration spoils the work and can cause teeth breakage on the file.

(4) **DO**: Keep your files separate from each other, and from other hardened tools.

(5) **DO**: Cut on the forward stroke only and ease pressure on the file on the return.

(6) **DO**: Use the full length of the file on each stroke, it improves cutting speed and life.

(7) **DO**: Treat your files with care, store carefully in dry place after use, and never allow them to rub together.

DON'T

(1) **DON'T**: Use a file without a properly fitted handle of correct size. Remember, a sharp tang will easily penetrate your palm.

(2) **DON'T**: Oil your files—either for rust protection or as a cutting agent.

(3) **DON'T**: Expect a file to bend or bounce—it won't.

(4) **DON'T**: Try to file very hard on case hardened steel—you will only destroy the tool.

(5) **DON'T**: Use the file as a crowbar, reamer, improvised chisel or hammer. This can lead to serious accidents, due to the fully hardened steel's susceptibility to shattering.

(6) **DON'T**: Use on heated metal or your file will lose its ability to cut.

(7) **DON'T**: Use 'any old file' for any job. There are hundreds of different shapes, cuts and sizes. There is a correct file for every job—for efficient performance, always select the right one.

SPEAR & JACKSON Engineers Files

Cuts

B **Bastard cut** is the standard cut used for shaping and dressing steels and castings.
S **Second cut** is for hard metals.
Sm **Smooth cut** is for hard metals and for use as a finishing file.
Si **Single cut** is used principally on saw files.
C **Cabinet rasp second cut**
W **Wood rasp second cut**

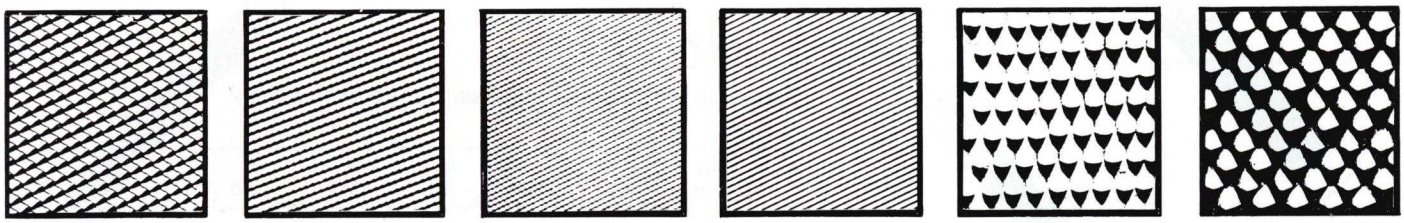
Abbreviations used in this catalogue to denote the above cuts are as follows:
B—Bastard cut S—Second cut Sm—Smooth cut

Colour Coding

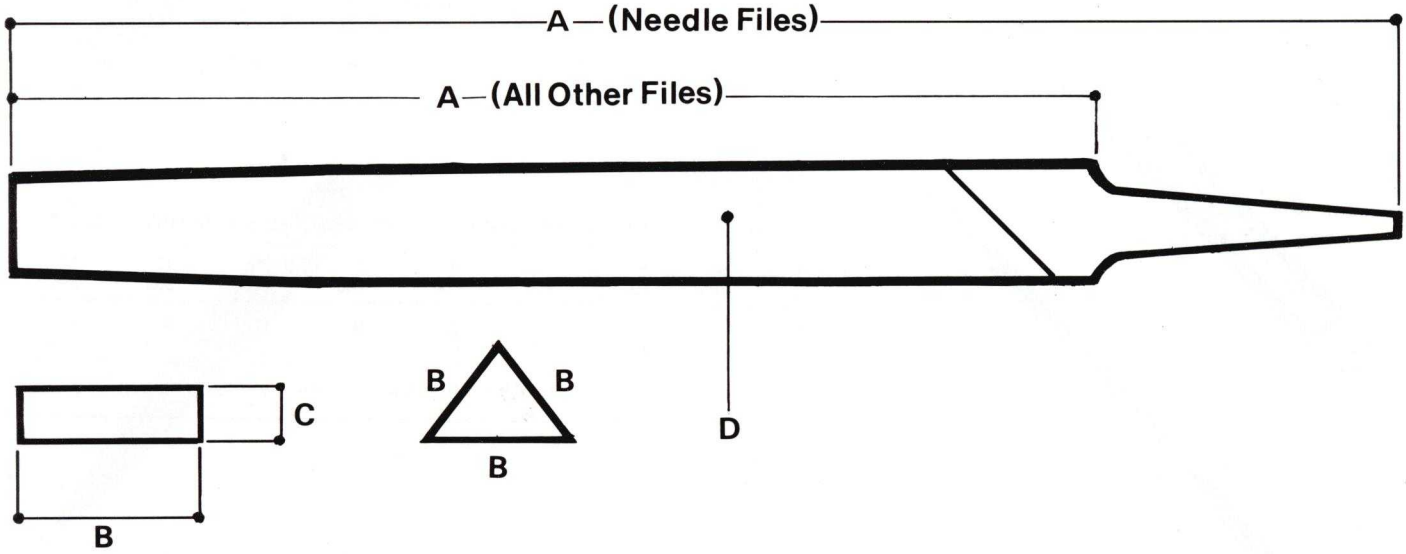
Box end labels carry the international colour coding for engineering files as follows:
Bastard cut—Green Second cut—Yellow Smooth cut—Red

Ordering Procedure

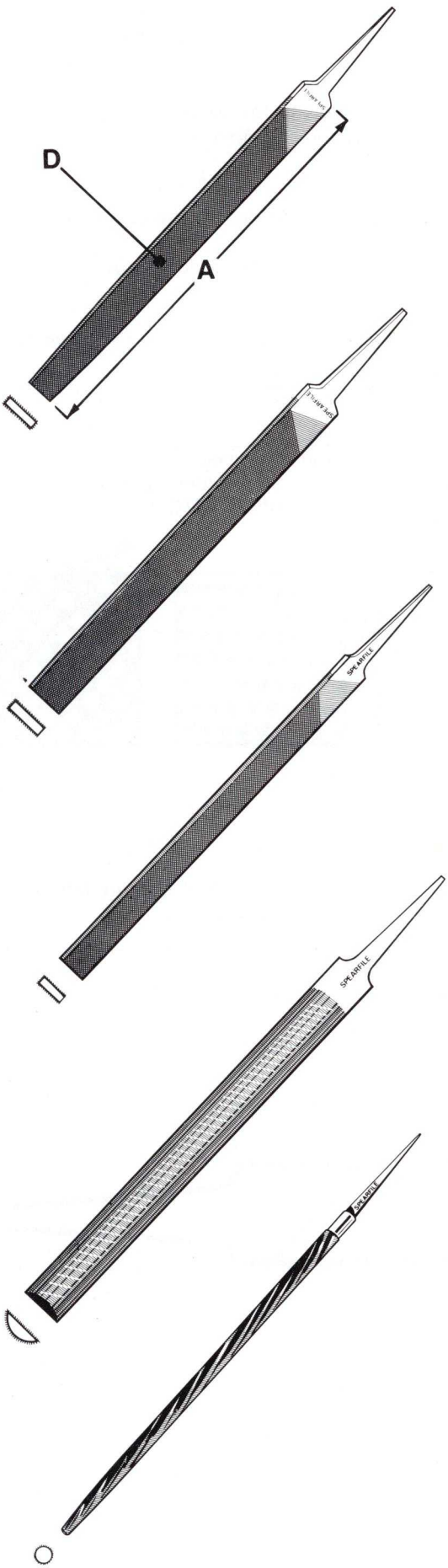
Orders can only be accepted for boxed quantities.
The following details should be stated when ordering files:
1/Quantity 2/Type of file 3/Length 4/Cut



Throughout this section dimensions and cuts of files are indicated in the tables by an alphabetical reference as follows.



SPEAR & JACKSON Engineers Files



Flat

Taper in width, cut on both sides and edges.

A	ins:	4	6	8	10	12	14
	mm:	100	150	205	255	305	355
B x C	ins:	$\frac{15}{32}$ x $\frac{7}{64}$	$\frac{5}{8}$ x $\frac{5}{32}$	$\frac{13}{16}$ x $\frac{13}{64}$	1 x $\frac{1}{4}$	$1\frac{3}{16}$ x $\frac{17}{64}$	$1\frac{3}{8}$ x $\frac{5}{16}$
	mm:	11.9 x 2.8	15.9 x 4	20.6 x 5.2	25.4 x 6.3	29.7 x 6.7	34.9 x 7.9
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm

Hand

Parallel in width, cut on both sides and one edge.

A	ins:	4	6	8	10	12	14
	mm:	100	150	205	255	305	355
B x C	ins:	$\frac{15}{32}$ x $\frac{7}{64}$	$\frac{5}{8}$ x $\frac{5}{32}$	$\frac{13}{16}$ x $\frac{13}{64}$	1 x $\frac{1}{4}$	$1\frac{3}{16}$ x $\frac{17}{64}$	$1\frac{3}{8}$ x $\frac{5}{16}$
	mm:	11.9 x 2.8	15.9 x 4	20.6 x 5.2	25.4 x 6.3	29.7 x 6.7	34.9 x 7.9
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm

Pillar

Parallel in width and thickness. Cut on both sides .

A	ins:	6	6	8	8	10
	mm:	150	150	205	205	255
B x C	ins:	$\frac{3}{8}$ x $\frac{1}{8}$	$\frac{1}{2}$ x $\frac{1}{8}$	$\frac{1}{2}$ x $\frac{1}{8}$	$\frac{5}{8}$ x $\frac{3}{16}$	$\frac{3}{4}$ x $\frac{1}{4}$
	mm:	9.4 x 3.2	12.7 x 3.2	12.7 x 3.2	15.9 x 4.7	18.9 x 6.3
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm

Half round

For filing both flat and concave surfaces. Parallel in width and thickness.

A	ins:	4	6	8	10	12	14
	mm:	100	150	205	255	305	355
B x C	ins:	$\frac{7}{16}$ x $\frac{5}{32}$	$\frac{5}{8}$ x $\frac{3}{16}$	$\frac{25}{32}$ x $\frac{15}{64}$	$\frac{31}{32}$ x $\frac{9}{32}$	$1\frac{5}{32}$ x $\frac{11}{32}$	$1\frac{11}{32}$ x $\frac{13}{32}$
	mm:	11.1 x 4	15.9 x 4.7	19.8 x 6	24.6 x 7.1	29 x 8.7	34.1 x 10.3
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm

Round

For circular openings and concave surfaces. Tapers slightly to point.

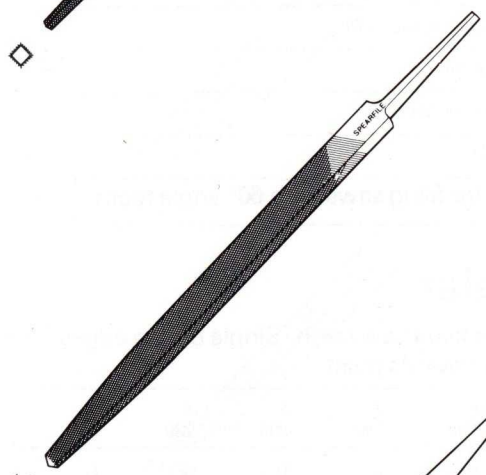
A	ins:	4	5	6	8	10	12	14
	mm:	100	125	150	205	255	305	355
B x C	ins:	$\frac{5}{32}$	$\frac{3}{16}$	$\frac{15}{64}$	$\frac{19}{64}$	$\frac{11}{32}$	$\frac{15}{32}$	$\frac{19}{32}$
	mm:	4	4.8	6	7.5	8.7	11.9	15.1
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm

SPEAR & JACKSON Engineers Files

Square

For slots and keyways. Tapers slightly to point and double cut on all four sides.

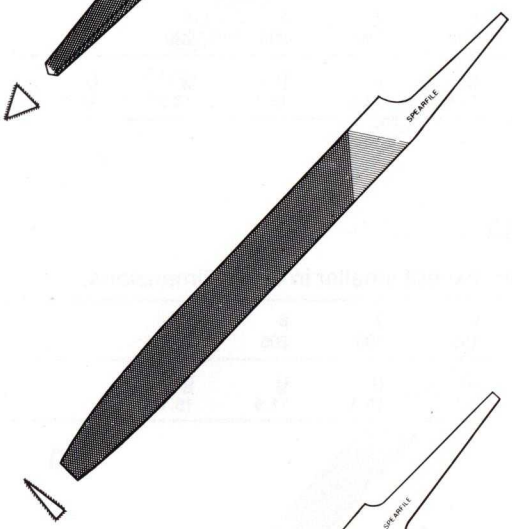
A	ins:	4	6	8	10	12	14	16
	mm:	100	150	205	255	305	355	405
B x C	ins:	$\frac{5}{32}$	$\frac{15}{64}$	$\frac{19}{64}$	$\frac{11}{32}$	$\frac{15}{32}$	$\frac{19}{32}$	$\frac{23}{32}$
	mm:	4	6	7.5	8.7	11.9	15.1	18.2
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/



Threesquare

For filing out sharp corners and internal angles. Double cut on all three sides. Tapers slightly towards point.

A	ins:	4	6	8	10	12
	mm:	100	150	205	255	305
B x C	ins:	$\frac{11}{32}$	$\frac{15}{32}$	$\frac{19}{32}$	$\frac{23}{32}$	$\frac{27}{32}$
	mm:	8.7	4.9	15.1	18.2	21.4
D		B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm	B/S/Sm



Knife

Shaped like a wedge or knife blade with one thick edge tapering to a thin edge. For filing all work having acute angles. Double cut sides and single cut thin edge.

A	ins:	6	8
	mm:	150	205
B x C	ins:	$\frac{11}{16}$ x $\frac{11}{64}$	$\frac{7}{8}$ x $\frac{7}{32}$
	mm:	17.5 x 4.4	22.2 x 5.6
D		B/S/Sm	B/S/Sm

Warding

Uniform in thickness and tapered in width to narrow point, double cut on sides and single cut on edges. Made of a special flexible steel which will not snap under normal use.

A	ins:	4	6	8
	mm:	100	150	205
B x C	ins:	$\frac{15}{32}$ x $\frac{3}{64}$	$\frac{5}{8}$ x $\frac{5}{64}$	$\frac{51}{64}$ x $\frac{7}{64}$
	mm:	11.9 x 1.2	15.8 x 1.9	20.1 x 2.8
D		B/S/Sm	B/S/Sm	B/S/Sm

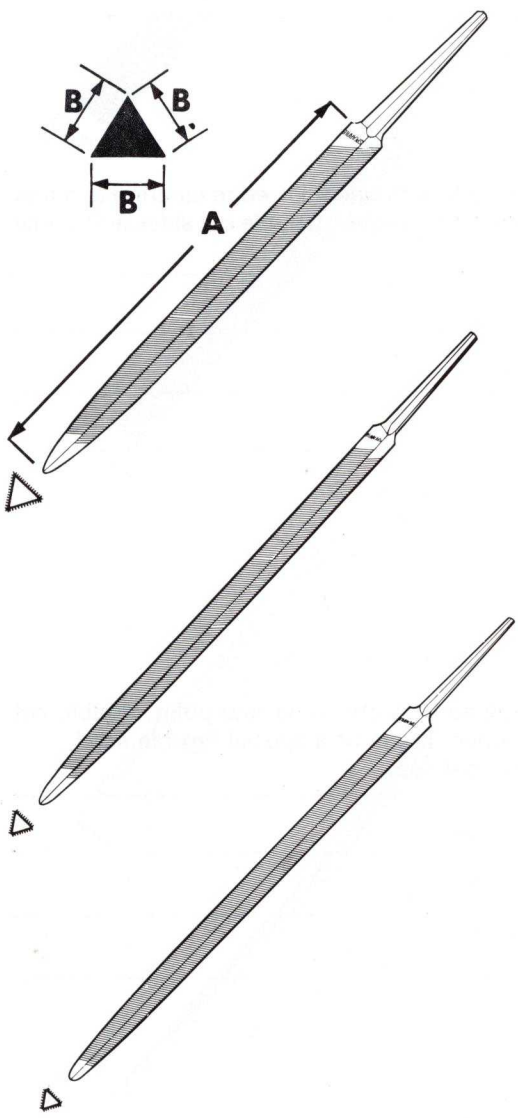
SPEAR & JACKSON Saw Files

Taper saw file recommendations

The saw file edge is set to give a correct fit in the gullet of the saw tooth. The following table will assist you in choosing the right file for each pitch of saw tooth. Saw files are supplied in second cut/single except where stated.

Teeth per inch	Recommended file
16	Double extra slim—4in
13/14	Extra slim—4in
12	Extra slim—5in
11	Regular—4in; or Extra slim—5in
10	Extra slim—6in or 5in
9	Extra slim—6in
8	Extra slim—7in; or Slim—6in
7	Slim—6in or 7in
6	Regular—6in; or Slim—7in
5	Regular—7in

Taper (triangular) saw files are for filing saws with 60° angle teeth.



Taper saw/regular

60° angle, triangular section for filing saw teeth. Single cut on edges and flat sides. Equal sides tapering towards point.

A	ins:	4	5	6	7	8	9	10
	mm:	100	125	150	180	205	230	255
B	ins:	11/32	13/32	15/32	17/32	19/32	21/32	23/32
	mm:	8.7	10.3	11.9	13.5	15.1	16.7	18.2

Taper saw/slim

Same section as regular taper, except smaller in cross dimensions.

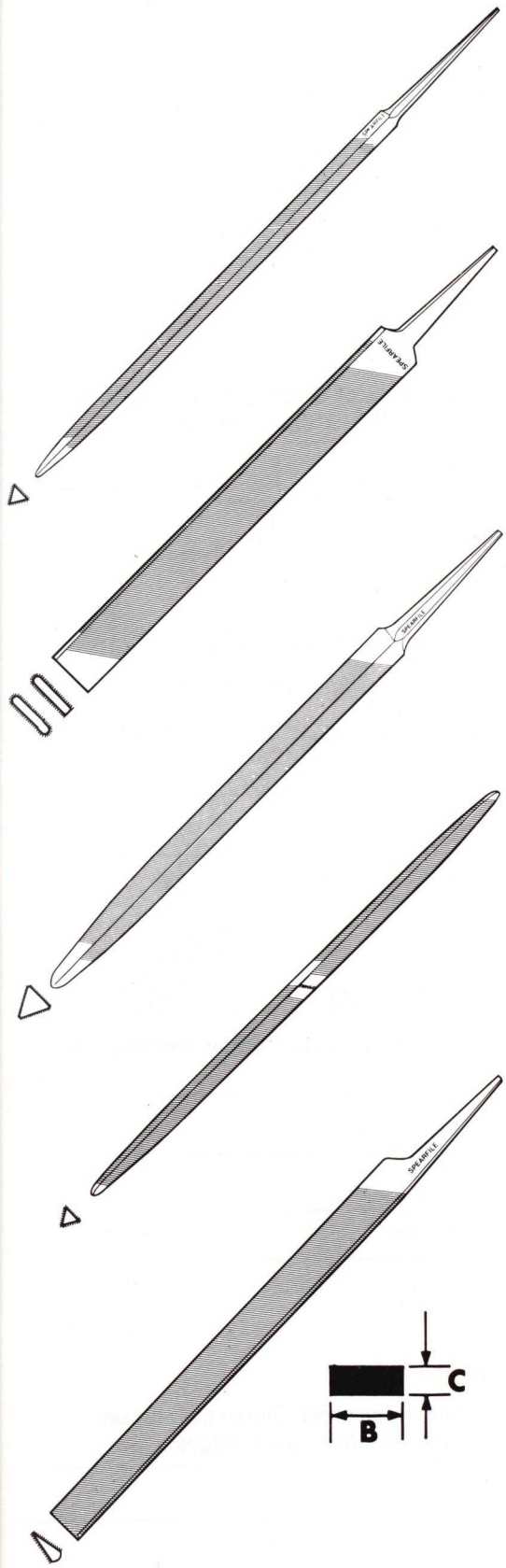
A	ins:	4	5	6	7	8	10
	mm:	100	125	150	180	205	255
B	ins:	7/32	9/32	11/32	13/32	15/32	19/32
	mm:	5.5	7.1	8.7	10.3	11.9	15.1

Taper saw/extra slim

Same section as Taper saw/slim except even smaller in cross dimension.

A	ins:	4	5	6	7	8
	mm:	100	125	150	180	205
B	ins:	3/16	7/32	9/32	11/32	13/32
	mm:	4.8	5.5	7.1	8.7	10.3

SPEAR & JACKSON Saw Files



Taper saw/double extra slim

Same section as Taper saw/extra slim except smaller in cross dimension.

A	ins:	4	5	6	7	8
	mm:	100	125	150	180	205
B	ins:	5/32	3/16	7/32	1/4	5/16
	mm:	4	4.8	5.5	6.3	7.9

Mill saw

Parallel in width and thickness and made in heavier section than Mill files.
Made with one round edge or two round edges.
Single cut on sides and edges.

A	ins:	8	10	12
	mm:	205	255	305
B	ins:	15/16 x 3/16	1 1/16 x 7/32	1 3/16 x 1/4
	mm:	24.8 x 4.8	26.6 x 5.5	29.7 x 6.3

Band saw/taper

Same section as regular taper saw files but with more rounded edges for sharpening Band saws, giving well rounded gullets between the teeth.

A	ins:	6	8
	mm:	150	205
B	ins:	15/32	19/32
	mm:	11.9	15.1

Double end saw

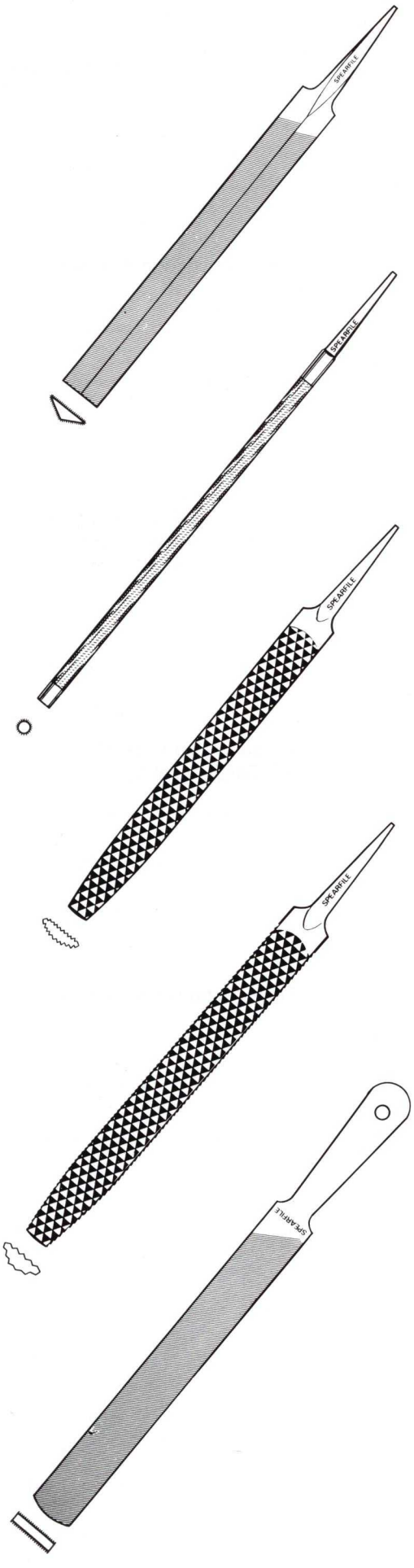
Triangular in shape and equivalent to Taper saw/slim in section. No tang, and tapered from centre to each end. For general saw sharpening.

A	ins:	6	7	8	9	10
	mm:	150	180	205	230	255
B	ins:	7/32	1/4	9/32	11/32	3/8
	mm:	5.5	6.3	7.1	8.7	9.5

Cross cut saw

Wedge section with rounded thick edge. Single cut on all sides and parallel in width.

A	ins:	6	8	10
	mm:	150	205	255
B	ins:	9/16 x 3/16	11/16 x 1/4	13/16 x 11/32
	mm:	14.3 x 4.7	17.5 x 6.3	20.6 x 8.7



Cant saw

Triangular in shape with two equal sides. Single cut on all three sides and edges and used for sharpening saws with long slender teeth, such as pruning saws.

A	ins:	6	8	10
	mm:	150	205	255
B x C	ins:	$\frac{17}{32}$ x $\frac{7}{32}$	$\frac{11}{16}$ x $\frac{17}{64}$	$\frac{13}{16}$ x $\frac{5}{16}$
	mm:	13.5 x 5.5	17.5 x 6.7	20.6 x 7.9

Chain saw/round

Special spiral cut. For filing the gullets of Chain saws. Supplied in double cut. Nominal sizes strictly +·000-·010in tolerance.

A	ins:	8	8	8	8	8
	mm:	205	205	205	205	205
B	ins:	$\frac{3}{16}$	$\frac{7}{32}$	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{5}{16}$
	mm:	4.7	5.5	6.3	7.1	7.9

Cabinet rasp/half round

Tapered in section but wider and thinner than regular half round shape. Made only in second cut and smooth.

A	ins:	8	10	12
	mm:	205	255	305
B x C	ins:	$\frac{29}{32}$ x $\frac{11}{64}$	$1\frac{1}{8}$ x $\frac{7}{32}$	$1\frac{11}{32}$ x $\frac{1}{4}$
	mm:	23 x 4.4	28 x 5.5	33.7 x 6.3
D		S/Sm	S/Sm	S/Sm

Wood rasp/half round

Tapered in width and thickness. Rasp cut on both sides and single file cut on edges.

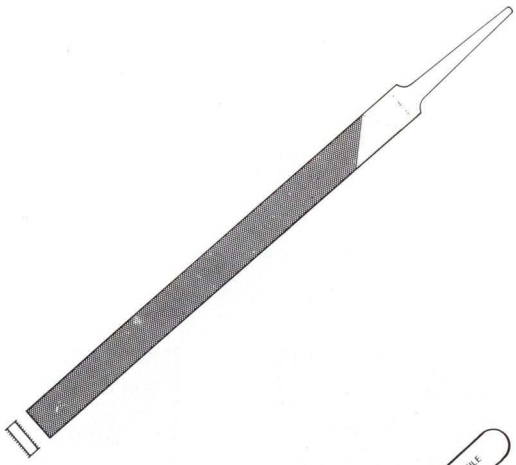
A	ins:	8	10	12
	mm:	205	255	305
B x C	ins:	$\frac{25}{32}$ x $\frac{15}{64}$	$\frac{31}{32}$ x $\frac{9}{32}$	$1\frac{5}{32}$ x $\frac{11}{32}$
	mm:	19.8 x 6	24.6 x 7.1	29 x 8.7
D		B/S/Sm	B/S/Sm	B/S/Sm

Farmers own reaper

General purpose file for sharpening edge tools. Single cut and self handled. Parallel in width and thickness. Not cut on edges.

A	ins:	8	10
	mm:	205	255
B x C	ins:	$\frac{31}{32}$ x $\frac{11}{64}$	$\frac{31}{32}$ x $\frac{11}{64}$
	mm:	24.6 x 4.4	24.6 x 4.4
D		S	S

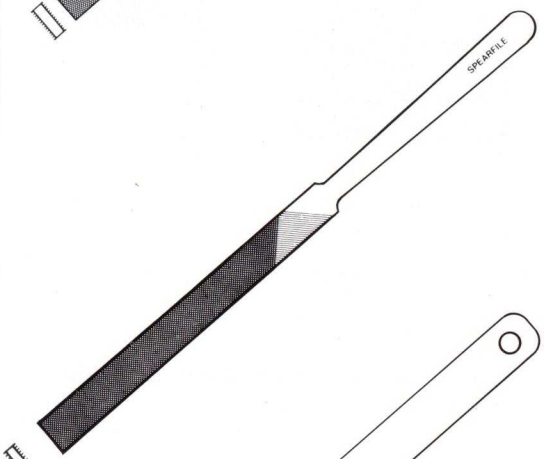
SPEAR & JACKSON Special Purpose Files



Hardness testing file

These files are used for testing material of 62/64 Rockwell C hardness. The file will bite into this hardness but should be used only to test and not to file for any prolonged time.

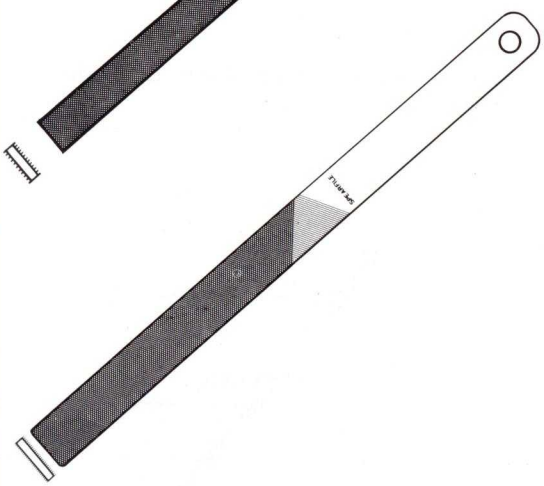
A	ins:	8
	mm:	205
B x C	ins:	$\frac{5}{8}$ x $\frac{3}{16}$
	mm:	15.9 x 4.7
D		1 (Smooth) 2 safe edges



Magneto files/flat handled

Can be supplied double cut or single cut.

A	ins:	$6\frac{1}{2}$
	mm:	160
D		Sm



Rotary mower file

Parallel in width and thickness. For sharpening blades of rotary mowing machines. Second cut/double on sides. Length of cut 6in with both edges uncut. Self-handled with $\frac{3}{8}$in diameter hole.

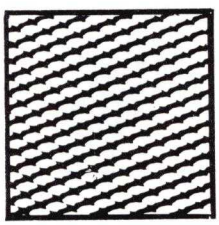
A	ins:	10
	mm:	255
B x C	ins:	$\frac{21}{64}$ x $\frac{1}{8}$
	mm:	20.2 x 3.2
D		S

SPEAR & JACKSON Precision Files

Scientifically produced from high grade steel. SpearFile Precision and Needle Files are specially manufactured for tool makers, instrument makers, watchmakers, jewellers and for all work which demands fine and accurate limits.

Cuts of Precision Files

Cut number	Teeth per inch 4in	6in	Nearest comparable cut
00	42	32	Bastard
0	54	46	Second cut
2	86	74	Extra smooth
4	120	110	Extra dead smooth
6	150	140	Double dead smooth



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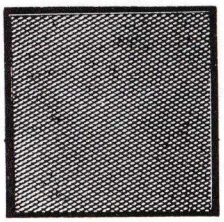


4

6

These illustrations are of sections of 6in. Precision files, magnified for clarity and not to scale.

Hand

Parallel in width and taper in thickness. Up to no. 4 cut, one safe (uncut) edge. No. 6 cut, two safe (uncut) edges.

A	ins:	4	6	8
	mm:	100	150	205
B x C	ins:	$\frac{1}{2}$ x $\frac{1}{8}$	$\frac{23}{32}$ x $\frac{11}{64}$	$\frac{29}{32}$ x $\frac{7}{32}$
	mm:	12.7 x 3.2	18.2 x 4.4	23 x 5.6
D		0/2/4/6	0/2/4/6	0/2/4

Halfround

Standard shape tapered in width and thickness to point.

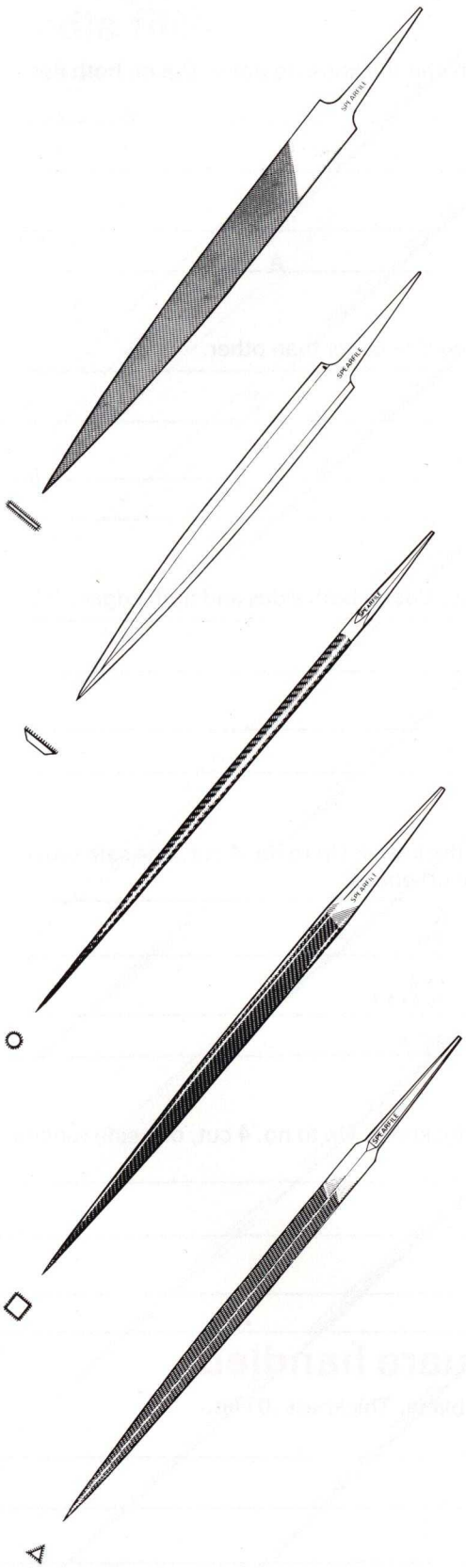
A	ins:	4	6	8
	mm:	100	150	205
B x C	ins:	$\frac{15}{32}$ x $\frac{9}{64}$	$\frac{5}{8}$ x $\frac{3}{16}$	$\frac{7}{8}$ x $\frac{1}{4}$
	mm:	11.9 x 3.6	15.9 x 4.8	22.2 x 6.3
D		0/2/4	0/2/4/6	2

Flat

Tapered in width and thickness to point. Cut on all sides.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{1}{2}$ x $\frac{3}{32}$	$\frac{11}{16}$ x $\frac{1}{8}$
	mm:	12.7 x 2.4	17.5 x 3.2
D		0/2/4	0/2/4

SPEAR & JACKSON Precision Files



Warding

Tapered in width to point. Parallel in thickness. Cut on all sides.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{5}{8}$ x $\frac{1}{16}$	$\frac{21}{32}$ x $\frac{3}{32}$
	mm:	15.9 x 1.6	16.7 x 2.4
D		0/2/4	0/2/4

Barrette

Cut on the flat side only. The back and bevelled edges are safe (uncut).

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{1}{2}$ x $\frac{3}{32}$	$\frac{11}{16}$ x $\frac{1}{8}$
	mm:	12.7 x 2.4	17.5 x 3.2
D		2	0/2

Round

Tapering from shoulder to point.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{5}{32}$	$\frac{15}{64}$
	mm:	4	6
D		0/2/4	00/0/2/4/6

Square

Tapering to point from square shoulder. Cut on all sides.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{5}{32}$	$\frac{1}{4}$
	mm:	4	6.3
D		0/2/4	0/2

Threesquare

Triangular with 60° angles tapering in width to point. Cut three sides with sharp edges.

A	ins:	4	6
	mm:	100	150
B	ins:	$\frac{9}{32}$	$\frac{3}{8}$
	mm:	7.1	9.5
D		0/2/4	0/2/4

SPEAR & JACKSON Precision Files

Knife

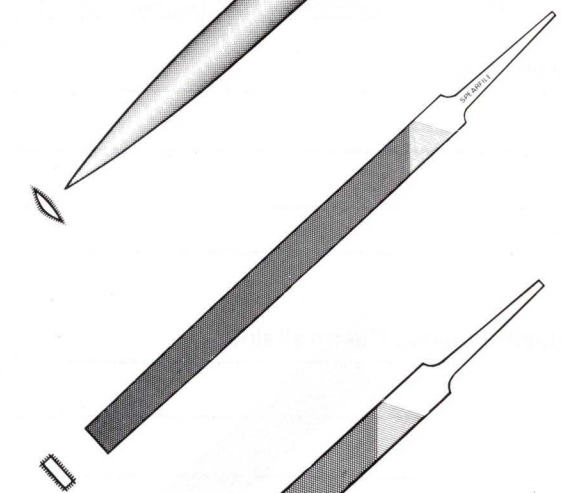
Knife shape tapering in width and thickness to point. Cut on both flat sides and tapered edge.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{1}{2}$ x $\frac{1}{8}$	$\frac{11}{16}$ x $\frac{5}{32}$
	mm:	12.7 x 3.2	17.4 x 4
D		0/2/4	0/2/4

Crossing

Oval in shape but radius of one side larger than other.

A	ins:	4	6
	mm:	100	150
B x C	ins:	$\frac{15}{32}$ x $\frac{5}{32}$	$\frac{5}{8}$ x $\frac{13}{64}$
	mm:	11.9 x 4	15.9 x 5.2
D		0/2/4	0/2/4



Equalling

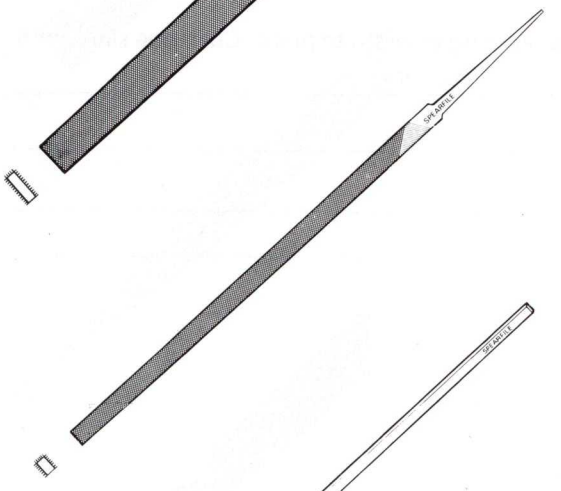
Parallel in width and thickness. Cut on both sides and both edges.

A	ins:	4	
	mm:	100	
B x C	ins:	$\frac{1}{2}$ x $\frac{3}{32}$	
	mm:	12.7 x 2.4	
D		2	

Pillar

Parallel in width and taper in thickness. Up to no. 4 cut, one safe (uncut) edge. No. 6 cut, two safe (uncut) edges.

A	ins:	4	6	8
	mm:	100	150	205
B x C	ins:	$\frac{3}{8}$ x $\frac{1}{8}$	$\frac{1}{2}$ x $\frac{5}{32}$	$\frac{5}{8}$ x $\frac{3}{16}$
	mm:	9.5 x 3.2	12.7 x 4	15.9 x 4.7
D		0/2/4/6	00/0/2/4	0/2/4



Narrow pillar

Parallel in width and taper in thickness. Up to no. 4 cut, one safe (uncut) edge.

A	ins:	6	
	mm:	150	
B x C	ins:	$\frac{1}{4}$ x $\frac{1}{8}$	
	mm:	6.3 x 3.2	
D		2/4	

Contact file/square handled

Special flexible file with a 2in blade. Thickness .017in. Weight 1oz.

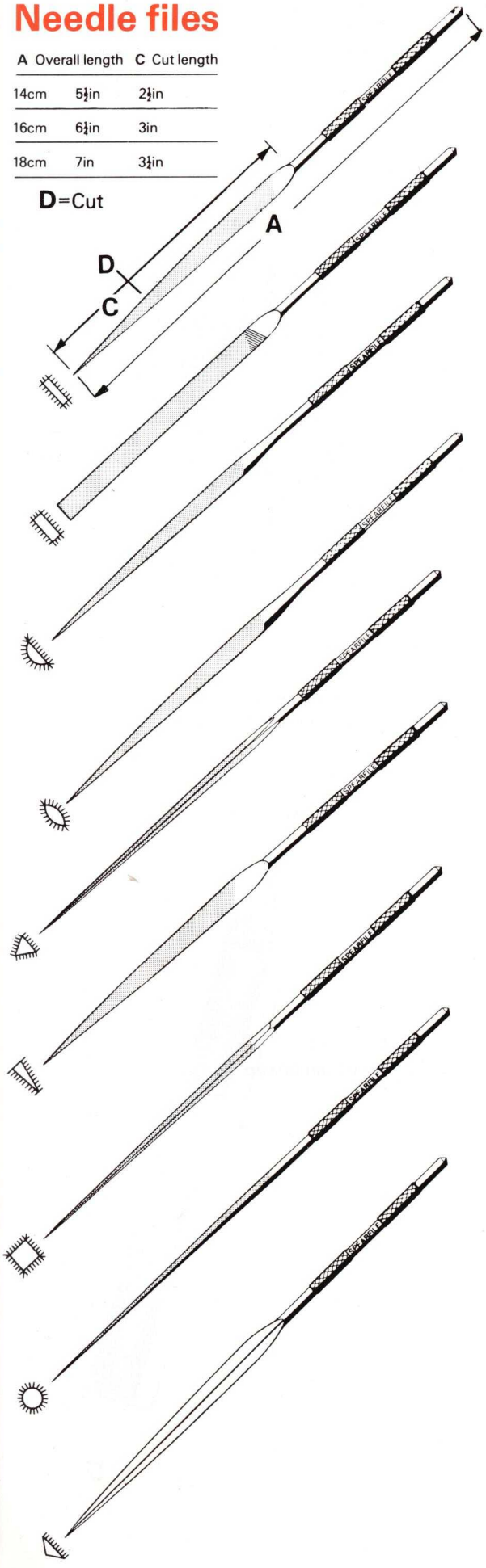
A	ins:	$5\frac{1}{2}$
	mm:	140
B	ins:	$\frac{11}{64}$
	mm:	4.4

SPEAR & JACKSON Needle Files

Needle files

A Overall length		C Cut length
14cm	5½in	2½in
16cm	6¼in	3in
18cm	7in	3¼in

D=Cut



Flat/Warding

A	cm:	14	16
D		0/2/4	0/2/4

Hand

A	cm:	14	16
D		0/2/4	0/2/4

Half round

A	cm:	14	16
D		0/2/4	0/2/4

Crossing

A	cm:	14	16
D		0/2/4	0/2/4

Threesquare

A	cm:	14	16
D		0/2/4	0/2/4

Knife

A	cm:	14	16
D		0/2/4	0/2/4

Square

A	cm:	14	16
D		0/2/4	0/2/4

Round

A	cm:	14	16
D		0/2/4	0/2/4

Barrette

A	cm:	14	16
D		0/2	0/2

SPEAR & JACKSON Needle Files

Round edge joint

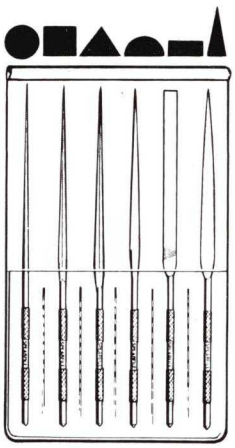
A	cm:	14	16
D		0/2	0/2

Slitting

A	cm:	14	16
D		0/2	0/2

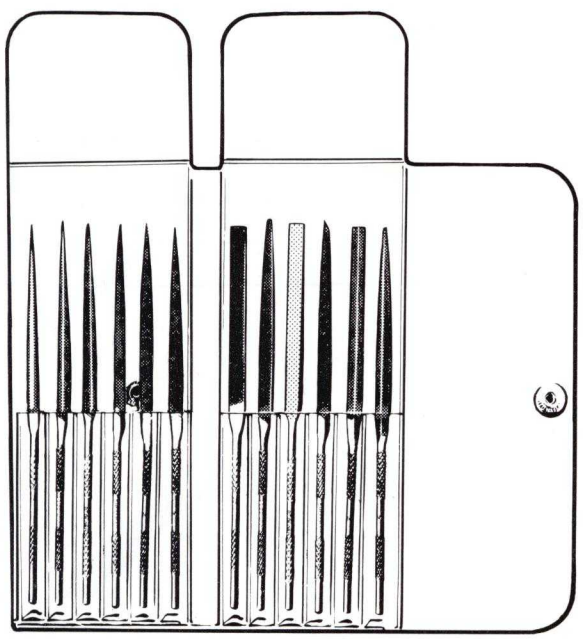
Pippin

A	cm:	14	16
D		0/2	0/2



Needle file sets
Miniroll.

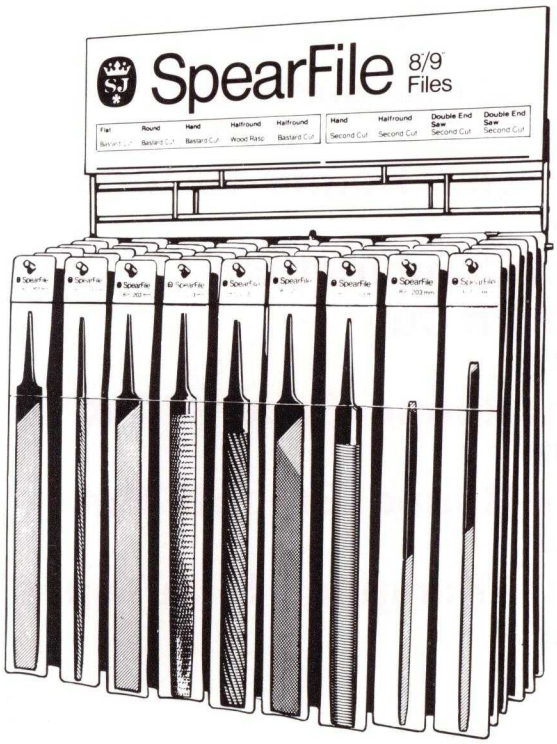
Set of 6 — Round/Square/Threesquare/Halfround/Flat/Knife — in PVC tool roll. Length 14cm or 16cm. Cuts 0/2



Handiroll.

Set of 12 (all shapes) in PVC tool roll.
Length 14cm or 16cm. Also available boxed. Cuts 0/2/4.

SPEAR & JACKSON Files/Uni-Packs



Dispensers

Are available free for Wall/Pegboard mounting and carry 45 files.

Dispenser width — 14in.

Dispenser S 2210 5 each 6in selection.
Dispenser M 2926 5 each 8in selection.
Dispenser L 3826 5 each 10in selection.
Dispenser X 4099 5 each of files indicated* below.

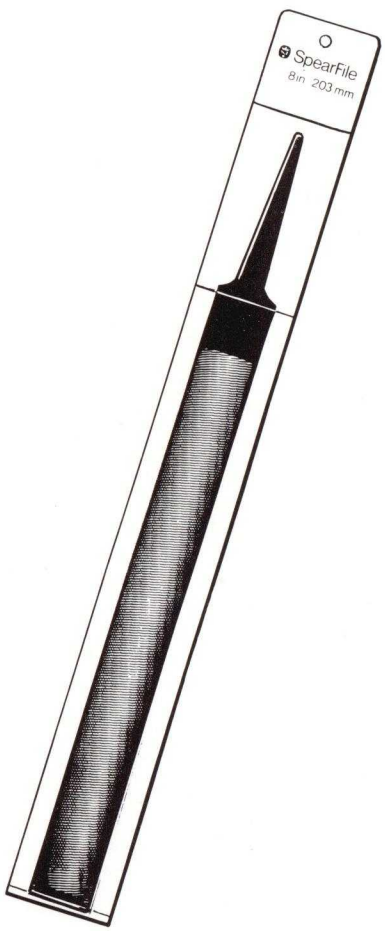
Uni-Pack files, complete with sheath, are available in the types and sizes listed below.

Type/sizes

6 inch selection	Hand Second Cut*
Hand Bastard	Halfround Second Cut
Halfround Bastard*	Warding Second Cut
Round Bastard*	D. E. Saw File
Square Bastard	D. E. Saw File (7 in.)

8 inch selection	Halfround Bastard Rasp*
Hand Bastard	Hand Second Cut
Flat Bastard*	Halfround Second Cut*
Halfround Bastard	D. E. Saw File*
Round Bastard	D. E. Saw File (9 in.)

10 inch selection	Halfround Bastard Rasp
Hand Bastard*	Hand Second Cut
Flat Bastard	Flat Second Cut
Halfround Bastard	Halfround Second Cut*
Round Bastard	Millsaw 2RE



Contact files/carded (not illustrated)

Card is available for wall or counter mounting. 10 files per card.

Magneto files/carded (not illustrated)

Card is available for wall or counter mounting. 10 files per card. Double or Single cut.

SPEAR & JACKSON Handled Files

Polypropylene handles — comfortable to grip. Easy to use

8" (205mm) Hand-Bastard
Code 10701108Q

8" (205mm) Half Round-Second Cut
Code 10702208K

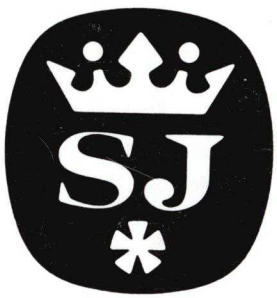
8" (205mm) Combination — Rasp/Smooth Cut
Code 10770008L

8" (205mm) Round-Second Cut
Code 10703208M

6" (152mm) Round-Smooth Cut
Code 10703306Z

6" (152mm) Triangular-Slim Taper
Code 10729206A

Dispenser
Containing 5 of each type of handled file.
Code 10780008H



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